

CATALOGUE **7** UMBER SEVEN

JULIUS  
BLUM  
AND COMPANY, INC.

STOCK ELEMENTS FOR THE  
FABRICATION AND ASSEMBLY  
OF ORNAMENTAL METAL WORK

OFFICE AND WAREHOUSE: CARLSTADT, N. J. • GENEVA 8-4600  
New York Phone OXFORD 5-2236 • Philadelphia Phone MARKET 7-7596



# CATALOG No. 7

(ISSUE 1955)

# JULIUS BLUM

AND COMPANY, INC.  
CARLSTADT, NEW JERSEY

Just East of Highway 17—8 Miles from Manhattan via Lincoln Tunnel

New Jersey phone GENEVA 8-4600 • New York phone OXFORD 5-2236

Philadelphia phone MARKET 7-7596

## General Information

Our line of stock elements has been built up over a period of 45 years with the purpose of making available to the architect and metal fabricator materials which will facilitate the design and fabrication of artistic work at commercial prices.

Every item described in this catalog is carried in stock in substantial quantities and shipment is usually made within 24 hours

after receipt of the order at our office.

We are adding new materials to our stock constantly and solicit inquiries for articles not shown in our catalog.

All weights and dimensions shown are approximate. They have been ascertained with care, but cannot be guaranteed.

ESTABLISHED 1910



TUBING, SHAPES, BARS

TRELLAGE

RAILINGS

SADDLES—NOSINGS

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# TUBING, SHAPES, BARS

**B**ARS, Shapes and Tubing in this section are carried in stock in long random lengths. They can also be furnished cut to specified lengths.

The range of sizes in the following pages represents our complete stock list as this catalog goes to press. However, we are adding new sizes to our stock constantly and will issue revised stock lists of tubing, shapes and bars from time to time. Please write for current stock list.

Every item listed in this section is carried in stock in substantial quantities. Shipment usually can be made immediately upon receipt of order.

All bronze items are of matching color. All aluminum extrusions are alloy 6063 (63-S). This alloy is recommended for architectural work because of its bright color, ease of fabrication and corrosion resistance. It is suitable for alumilinting.

Since all our bronze and aluminum sections are of uniform composition, the chance of accidental mis-matching of alloys or colors through shipping errors is eliminated.

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For Information on Plastic Rods and Tubing, write for special catalog: "Plastics"

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# SQUARE and RECTANGULAR STEEL TUBING

5

## Elements of Sections

### SQUARE TUBING

O. D. INCHES	THICKNESS BWG AND DEC. IN.	AREA SQ. IN.	MOM. OF INERTIA	SECTION MODULUS	RADIUS OF GYRATION
3/8	18 (.049)	.064	.001	.006	.135
1/2	20 (.035)	.065	.002	.009	.190
1/2	18 (.049)	.088	.003	.012	.185
1/2	16 (.065)	.113	.004	.015	.180
5/8	20 (.035)	.083	.005	.015	.241
5/8	18 (.049)	.113	.006	.020	.236
5/8	16 (.065)	.146	.008	.025	.230
3/4	20 (.035)	.100	.009	.023	.292
3/4	16 (.065)	.178	.014	.038	.281
7/8	20 (.035)	.118	.014	.032	.343
7/8	16 (.065)	.211	.023	.053	.332
1	20 (.035)	.135	.021	.042	.394
1	18 (.049)	.186	.028	.056	.389
1	16 (.065)	.243	.036	.071	.383
1	14 (.083)	.304	.043	.086	.376
1	11 (.120)	.422	.056	.111	.363
1 1/8	16 (.065)	.276	.052	.092	.434
1 1/8	20 (.035)	.170	.042	.067	.496
1 1/8	18 (.049)	.235	.057	.091	.491
1 1/8	16 (.065)	.308	.072	.116	.485
1 1/8	14 (.083)	.387	.088	.141	.478
1 1/8	11 (.120)	.542	.117	.187	.464
1 1/8	10 (.135)	.602	.127	.203	.459
1 1/8	7 (.188)	.799	.155	.248	.440
1 1/2	20 (.035)	.205	.073	.098	.598
1 1/2	18 (.049)	.284	.100	.133	.592
1 1/2	16 (.065)	.373	.128	.171	.586
1 1/2	14 (.083)	.470	.158	.211	.580
1 1/2	11 (.120)	.662	.212	.282	.565
1 1/2	(.140)	.762	.237	.316	.558
1 1/2	7 (.188)	.987	.289	.385	.541
1 3/4	16 (.065)	.438	.208	.237	.688
1 3/4	14 (.083)	.553	.257	.294	.682
2	16 (.065)	.503	.314	.314	.790
2	14 (.083)	.636	.391	.391	.783
2	11 (.120)	.902	.534	.534	.769
2	9 (.145)	1.076	.621	.621	.760
2	7 (.188)	1.363	.754	.754	.744
2	4 (.250)	1.750	.912	.912	.722
2 1/2	16 (.065)	.633	.626	.501	.995
2 1/2	14 (.083)	.802	.782	.626	.987
2 1/2	11 (.120)	1.142	1.081	.865	.973
2 1/2	7 (.188)	1.739	1.559	1.247	.947
2 1/2	4 (.250)	2.250	1.922	1.538	.924
3	16 (.065)	.763	1.096	.731	1.199
3	14 (.083)	.968	1.374	.916	1.191
3	11 (.120)	1.382	1.914	1.274	1.177
3	7 (.188)	2.109	2.793	1.862	1.151
3	4 (.250)	2.750	3.495	2.330	1.127
3 1/2	11 (.120)	1.622	3.093	1.767	1.381
3 1/2	7 (.188)	2.484	4.558	2.605	1.355
4	10 (.134)	2.072	5.168	2.584	1.579
4	7 (.188)	2.859	6.944	3.472	1.558
4	4 (.250)	3.750	8.828	4.414	1.534

### RECTANGULAR TUBING

O. D. INCHES	THICKNESS BWG AND DEC. IN.	AREA SQ. IN.	MOM. OF INERTIA	MAJOR AXIS		MINOR AXIS		
				SECTION MODULUS	RADIUS OF GYRATION	MOM. OF INERTIA	SECTION MODULUS	RADIUS OF GYRATION
3/8 x 3/8	16 (.065)	.129	.002	.013	.139	.008	.022	.253
3/8 x 1	16 (.065)	.162	.003	.018	.143	.018	.036	.332
1/2 x 1 1/4	16 (.065)	.211	.008	.033	.198	.038	.061	.425
5/8 x 2	14 (.083)	.408	.026	.083	.252	.181	.181	.665
3/4 x 1 1/2	16 (.065)	.276	.025	.068	.304	.078	.104	.532
3/4 x 1 1/2	14 (.083)	.346	.031	.082	.297	.095	.127	.526
1 x 1 1/4	14 (.083)	.346	.052	.104	.387	.074	.119	.463
1 x 1 1/2	14 (.083)	.387	.060	.121	.395	.116	.155	.548
1 x 2	14 (.083)	.470	.078	.156	.407	.238	.238	.711
1 x 2 1/2	14 (.083)	.553	.095	.191	.415	.418	.335	.869
1 x 3	14 (.083)	.636	.113	.226	.421	.668	.445	1.025
1 x 3 1/2	14 (.083)	.719	.130	.261	.426	.997	.570	1.177
1 1/4 x 1 3/4	14 (.083)	.470	.117	.187	.498	.199	.228	.651
1 1/4 x 2	14 (.083)	.512	.131	.209	.506	.276	.276	.734
1 1/4 x 2 1/2	14 (.083)	.595	.159	.255	.517	.479	.383	.897
1 1/4 x 3	14 (.083)	.678	.187	.300	.526	.758	.505	1.057
1 1/4 x 3 1/2	14 (.083)	.805	.227	.362	.530	1.179	.673	1.213
1 1/2 x 2	14 (.083)	.553	.200	.266	.601	.314	.314	.753
1 1/2 x 2 1/2	14 (.083)	.636	.241	.322	.616	.540	.432	.921
1 1/2 x 2 1/2	11 (.120)	.902	.326	.435	.601	.741	.593	.906
1 1/2 x 2 1/2	9 (.145)	1.096	.382	.510	.590	.879	.703	.895
1 1/2 x 2 1/2	7 (.188)	1.363	.452	.602	.578	1.056	.845	.880
1 1/2 x 3	16 (.065)	.568	.229	.305	.635	.676	.451	1.091
1 1/2 x 3	14 (.083)	.720	.283	.377	.627	.845	.563	1.084
1 1/2 x 3	7 (.188)	1.490	.518	.690	.596	1.627	1.085	1.045
1 1/2 x 3 1/2	16 (.065)	.633	.262	.350	.644	.990	.566	1.250
1 1/2 x 3 1/2	14 (.083)	.802	.325	.433	.636	1.240	.708	1.243
2 x 3	14 (.083)	.802	.543	.543	.823	1.021	.681	1.128
2 x 3	11 (.120)	1.142	.716	.716	.792	1.399	.933	1.107
2 x 3	7 (.188)	1.677	1.030	1.030	.784	1.985	1.324	1.088
2 x 4	14 (.083)	.968	.696	.696	.848	2.053	1.027	1.456
2 x 4	11 (.120)	1.382	.958	.958	.833	2.870	1.435	1.441
2 x 4	7 (.188)	2.030	1.333	1.333	.810	4.075	2.038	1.417
2 1/2 x 5	7 (.188)	2.671	2.812	2.249	1.025	8.522	3.409	1.786
3 x 4	11 (.120)	1.622	2.412	1.608	1.219	3.730	1.865	1.516
3 x 4	7 (.188)	2.390	3.419	2.279	1.196	5.390	2.695	1.502
3 x 6	7 (.188)	3.242	5.032	3.355	1.246	15.103	5.034	2.158
3 x 6	4 (.250)	4.250	6.338	4.225	1.221	19.339	6.446	2.133
3 x 8	7 (.188)	3.830	6.286	4.190	1.281	29.892	7.473	2.794
4 x 6	7 (.188)	3.610	9.333	4.666	1.608	17.580	5.860	2.207
4 x 6	4 (.250)	4.750	12.432	6.216	1.618	23.474	7.825	2.223
4 x 8	7 (.188)	4.190	11.961	5.981	1.690	35.397	8.849	2.906

This table has been calculated on a theoretical basis. It does not take into account commercial variations of wall thickness, corner radii, internal stresses, etc. While the figures have been ascertained with care, they cannot be guaranteed.

All the sizes listed here are carried in stock for immediate shipment.

For weights, see pages 6 and 7.

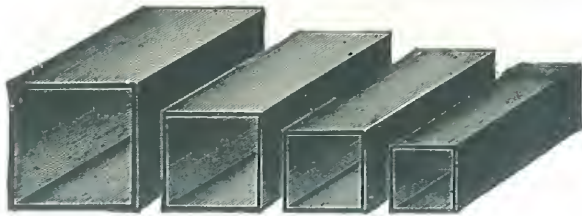
**JULIUS BLUM & CO., INC. • CARLSTADT, N. J.**

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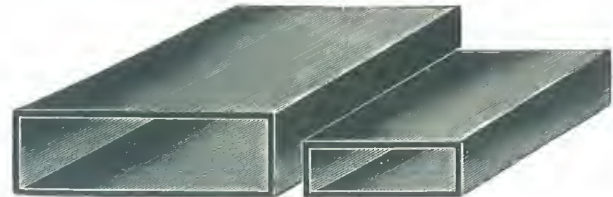
# Welded Mechanical Steel Tubing

EVERY SIZE CARRIED IN STOCK IN SUBSTANTIAL QUANTITIES



## SQUARE

O.D.	WALL (B.W.G.)	WEIGHT per Foot
3/8" x 3/8" x 18		.2172 lb.
1/2" x 1/2" x 20		.2213
1/2" x 1/2" x 18		.3005
1/2" x 1/2" x 16		.3845
5/8" x 5/8" x 20		.2808
5/8" x 5/8" x 18		.3838
5/8" x 5/8" x 16		.4950
3/4" x 3/4" x 20		.3043
3/4" x 3/4" x 16		.6055
7/8" x 7/8" x 20		.3998
7/8" x 7/8" x 16		.7160
1" x 1" x 20		.4593
1" x 1" x 18		.6337
1" x 1" x 16		.8265
1" x 1" x 14		1.035
1" x 1" x 11		1.436
1 1/8" x 1 1/8" x 16		.9370
1 1/4" x 1 1/4" x 20		.5783
1 1/4" x 1 1/4" x 18		.8003
1 1/4" x 1 1/4" x 16		1.048
1 1/4" x 1 1/4" x 14		1.317
1 1/4" x 1 1/4" x 11		1.844
1 1/2" x 1 1/2" x 20		.6973
1 1/2" x 1 1/2" x 18		.9669
1 1/2" x 1 1/2" x 16		1.269
1 1/2" x 1 1/2" x 14		1.600
1 1/2" x 1 1/2" x 11		2.252
1 3/4" x 1 3/4" x 16		1.490
1 3/4" x 1 3/4" x 14		1.882
2" x 2" x 16		1.711
2" x 2" x 14		2.164
2" x 2" x 11		3.068
2 1/2" x 2 1/2" x 16		2.153
2 1/2" x 2 1/2" x 14		2.728
2 1/2" x 2 1/2" x 11		3.884
3" x 3" x 16		2.595
3" x 3" x 14		3.293
3" x 3" x 11		4.887
3" x 3" x 7		6.903
3" x 3" x 4		8.950
3 1/2" x 3 1/2" x 11		5.800
3 1/2" x 3 1/2" x 7		8.129
4" x 4" x 10		7.045
4" x 4" x 7		9.350
4" x 4" x 4		12.18



## RECTANGULAR

O.D.	WALL (B.W.G.)	WEIGHT per Foot	O.D.	WALL (B.W.G.)	WEIGHT per Foot
3/8" x 3/4" x 16		.4950 lb.	2" x 4" x 14		3.293 lb.
3/8" x 1" x 16		.6055	2" x 4" x 11		4.700
1/2" x 1 1/4" x 16		.7160	2" x 4" x 7		6.903
5/8" x 2" x 14		1.458	2 1/2" x 1" x 14		1.882
3/4" x 3/8" x 16		.4950	2 1/2" x 1 1/4" x 14		2.023
3/4" x 1 1/2" x 16		.9370	2 1/2" x 1 1/2" x 14		2.164
3/4" x 1 1/2" x 14		1.176	2 1/2" x 1 1/2" x 11		3.068
1" x 3/8" x 16		.6055	2 1/2" x 5" x 7		8.743
1" x 1 1/4" x 14		1.176	3" x 1" x 14		2.164
1" x 1 1/2" x 14		1.317	3" x 1 1/4" x 14		2.305
1" x 2" x 14		1.600	3" x 1 1/2" x 16		1.932
1" x 2 1/2" x 14		1.882	3" x 1 1/2" x 14		2.446
1" x 3" x 14		2.164	3" x 1 1/2" x 7		5.272
1" x 3 1/2" x 14		2.446	3" x 2" x 14		2.728
1 1/4" x 1/2" x 16		.7160	3" x 2" x 11		3.884
1 1/4" x 1" x 14		1.176	3" x 2" x 7		5.911
1 1/4" x 1 3/4" x 14		1.600	3" x 4" x 11		5.800
1 1/4" x 2" x 14		1.741	3" x 4" x 7		8.129
1 1/4" x 2 1/2" x 14		2.023	3" x 6" x 7		10.57
1 1/4" x 3" x 14		2.305	3" x 6" x 4		14.45
1 1/4" x 3 1/2" x 14		2.587	3" x 8" x 7		13.04
1 1/2" x 3/4" x 16		.9370	3 1/2" x 1" x 14		2.446
1 1/2" x 3/4" x 14		1.176	3 1/2" x 1 1/4" x 14		2.587
1 1/2" x 1" x 14		1.317	3 1/2" x 1 1/2" x 16		2.153
1 1/2" x 2" x 14		1.882	3 1/2" x 1 1/2" x 14		2.728
1 1/2" x 2 1/2" x 14		2.164	4" x 2" x 14		3.293
1 1/2" x 2 1/2" x 11		3.068	4" x 2" x 11		4.700
1 1/2" x 3" x 16		1.932	4" x 2" x 7		6.903
1 1/2" x 3" x 14		2.446	4" x 3" x 11		5.800
1 1/2" x 3" x 7		5.272	4" x 3" x 7		8.129
1 1/2" x 3 1/2" x 16		2.153	4" x 6" x 7		11.81
1 1/2" x 3 1/2" x 14		2.728	4" x 6" x 4		16.15
1 3/4" x 1 1/4" x 14		1.600	4" x 8" x 7		14.27
2" x 5/8" x 14		1.458	5" x 2 1/2" x 7		8.743
2" x 1" x 14		1.600	6" x 3" x 7		10.57
2" x 1 1/4" x 14		1.741	6" x 3" x 4		14.45
2" x 1 1/2" x 14		1.882	6" x 4" x 7		11.81
2" x 3" x 14		2.728	6" x 4" x 4		16.15
2" x 3" x 11		3.884	8" x 3" x 7		13.04
2" x 3" x 7		5.911	8" x 4" x 7		14.27

Radius of Corners is governed by the wall thickness.

Tubing with 11 ga. and heavier wall has slightly rounded corners.

Square and rectangular steel tubing is carried in stock  
in long random lengths up to 20 feet.

Can also be furnished cut to specified lengths.

Additional sizes can be furnished from mill.

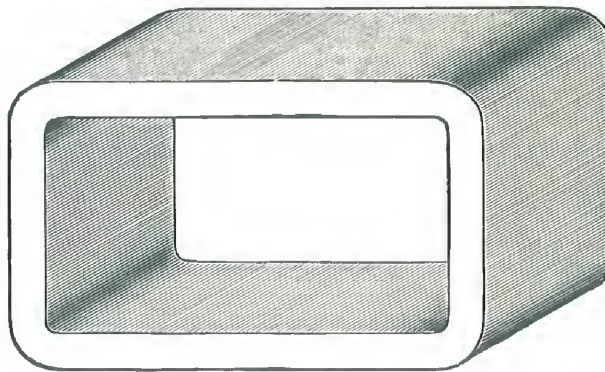
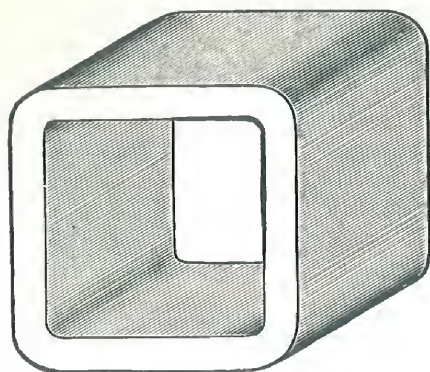
## JULIUS BLUM & CO., INC. • CARLSTADT, N. J.

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# Heavy Wall Square and Rectangular Steel Tubing

7

Every Size Carried in Stock in Substantial Quantities  
Slightly Rounded Corners



## SQUARE

O.D.	WALL	Weight per ft.
1" x 1" x .120"		1.436 lb.
1 1/4" x 1 1/4" x .120"		1.844
1 1/4" x 1 1/4" x .135"		2.200
1 1/4" x 1 1/4" x 3/16"		2.750
1 1/2" x 1 1/2" x .120"		2.252
1 1/2" x 1 1/2" x .140"		2.700
1 1/2" x 1 1/2" x 3/16"		3.050
2" x 2" x .120"		3.068
2" x 2" x .145"		3.700
2" x 2" x 3/16"		4.400
2" x 2" x 1/4"		5.600
2 1/2" x 2 1/2" x .120"		3.884
2 1/2" x 2 1/2" x 3/16"		5.600
2 1/2" x 2 1/2" x 1/4"		7.350
3" x 3" x 1/8"		4.887
3" x 3" x 3/16"		6.903
3" x 3" x 1/4"		8.940
3 1/2" x 3 1/2" x 1/8"		5.800
3 1/2" x 3 1/2" x 3/16"		8.129
4" x 4" x .134"		7.045
4" x 4" x 3/16"		9.350
4" x 4" x 1/4"		12.18

## RECTANGULAR

O.D.	WALL	Weight per ft.	O.D.	WALL	Weight per ft.
1 1/2" x 2 1/2" x .120"		3.068 lb.	3" x 6" x 3/16"		10.57 lb.
1 1/2" x 2 1/2" x .145"		3.750	3" x 6" x 1/4"		14.45
1 1/2" x 2 1/2" x 3/16"		4.500	3" x 8" x 3/16"		13.04
1 1/2" x 3" x 3/16"		5.272	4" x 2" x .120"		4.887
2" x 3" x .120"		3.884	4" x 2" x 3/16"		6.903
2" x 3" x 3/16"		5.911	4" x 3" x 1/8"		5.800
2" x 4" x .120"		4.887	4" x 3" x 3/16"		8.129
2" x 4" x 3/16"		6.903	4" x 6" x 3/16"		11.81
2 1/2" x 1 1/2" x .120"		3.068	4" x 6" x 1/4"		16.15
2 1/2" x 1 1/2" x .145"		3.750	4" x 8" x 3/16"		14.27
2 1/2" x 1 1/2" x 3/16"		4.500	5" x 2 1/2" x 3/16"		8.743
2 1/2" x 5" x 3/16"		8.743	6" x 3" x 3/16"		10.57
3" x 1 1/2" x 3/16"		5.272	6" x 3" x 1/4"		14.45
3" x 2" x .120"		3.884	6" x 4" x 3/16"		11.81
3" x 2" x 3/16"		5.911	6" x 4" x 1/4"		16.15
3" x 4" x 1/8"		5.800	8" x 3" x 3/16"		13.04
3" x 4" x 3/16"		8.129	8" x 4" x 3/16"		14.27

## Structural Steel Tubing – Square

### High Strength – Low Cost

1" x 1" x .073" .92 lb.

Carried in stock in long lengths up to 22 feet. Can also be furnished cut to specified lengths. Additional sizes can be furnished from mill.

All Tubing supplied galvanized to order if required.

Copper Bearing Tubing can be furnished from mill.

## SQUARE TUBE SOCKETS

Cast Iron Square Tube Sockets carried in stock for posts 1" square to 3" square. For details see page 42.

## POST CAPS

We carry in stock Post Caps for steel tubing from 1 1/2" square to 4" square and from 3" x 4" rectangular to 4" x 8" rectangular. For details, see page 57.

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TRELLAGE

RAILINGS

SADDLES—NOSINGS

MOULDINGS—FUNCTIONAL SHAPE.

ORNAMENTS—HARDWARE

MACHINE



# ARCHITECTURAL BRONZE BARS AND SHAPES

Match color of Bronze Handrails, Saddles and Mouldings

## ARCHITECTURAL BRONZE FLATS Sharp Corners

Size	Weight per foot
$\frac{1}{8}$ " x $\frac{1}{2}$ "	.231 lb.
$\frac{1}{8}$ " x $\frac{5}{8}$ "	.289
$\frac{1}{8}$ " x $\frac{3}{4}$ "	.346
$\frac{1}{8}$ " x 1"	.461
$\frac{1}{8}$ " x $1\frac{1}{4}$ "	.576
$\frac{1}{8}$ " x $1\frac{1}{2}$ "	.690
$\frac{1}{8}$ " x 2"	.921

$\frac{3}{16}$ " x $\frac{1}{2}$ "	.346
$\frac{3}{16}$ " x $\frac{5}{8}$ "	.432
$\frac{3}{16}$ " x $\frac{3}{4}$ "	.518
$\frac{3}{16}$ " x 1"	.689
$\frac{3}{16}$ " x $1\frac{1}{4}$ "	.870
$\frac{3}{16}$ " x $1\frac{1}{2}$ "	1.040
$\frac{3}{16}$ " x 2"	1.382
$\frac{3}{16}$ " x $2\frac{1}{2}$ "	1.728
$\frac{3}{16}$ " x 3"	2.075
$\frac{3}{16}$ " x $3\frac{1}{2}$ "	2.555

$\frac{1}{4}$ " x $\frac{3}{8}$ "	.342
$\frac{1}{4}$ " x $\frac{1}{2}$ "	.456
$\frac{1}{4}$ " x $\frac{5}{8}$ "	.576
$\frac{1}{4}$ " x $\frac{3}{4}$ "	.691
$\frac{1}{4}$ " x 1"	.921
$\frac{1}{4}$ " x $1\frac{1}{4}$ "	1.150
$\frac{1}{4}$ " x $1\frac{1}{2}$ "	1.380
$\frac{1}{4}$ " x 2"	1.842
$\frac{1}{4}$ " x $2\frac{1}{2}$ "	2.300
$\frac{1}{4}$ " x 3"	2.766
$\frac{1}{4}$ " x 4"	3.650

$\frac{3}{8}$ " x $\frac{1}{4}$ "	.342
$\frac{3}{8}$ " x $\frac{1}{2}$ "	.684
$\frac{3}{8}$ " x $\frac{3}{4}$ "	1.040
$\frac{3}{8}$ " x 1"	1.380
$\frac{3}{8}$ " x $1\frac{1}{4}$ "	1.730
$\frac{3}{8}$ " x $1\frac{1}{2}$ "	2.070
$\frac{3}{8}$ " x 2"	2.760
$\frac{3}{8}$ " x $2\frac{1}{2}$ "	3.422
$\frac{3}{8}$ " x 3"	4.106

$\frac{1}{2}$ " x $\frac{1}{8}$ "	.231
$\frac{1}{2}$ " x $\frac{3}{16}$ "	.346
$\frac{1}{2}$ " x $\frac{1}{4}$ "	.456
$\frac{1}{2}$ " x $\frac{3}{8}$ "	.684
$\frac{1}{2}$ " x 1"	1.840
$\frac{1}{2}$ " x $1\frac{1}{4}$ "	2.281
$\frac{1}{2}$ " x $1\frac{1}{2}$ "	2.760
$\frac{1}{2}$ " x 2"	3.680
$\frac{1}{2}$ " x $2\frac{1}{2}$ "	4.600
$\frac{1}{2}$ " x 3"	5.475

## ARCHITECTURAL BRONZE SQUARES Sharp Corners

Size	Weight per foot
$\frac{5}{16}$ " x $\frac{5}{16}$ "	.360 lb.
$\frac{3}{8}$ " x $\frac{3}{8}$ "	.518
$\frac{1}{2}$ " x $\frac{1}{2}$ "	.922
$\frac{5}{8}$ " x $\frac{5}{8}$ "	1.441
$\frac{3}{4}$ " x $\frac{3}{4}$ "	2.075
1" x 1"	3.689
$1\frac{1}{4}$ " x $1\frac{1}{4}$ "	5.76
$1\frac{1}{2}$ " x $1\frac{1}{2}$ "	8.28

## ARCHITECTURAL BRONZE ROUNDS

Dia.	Weight per foot
$\frac{1}{2}$ "	.723 lb.
$\frac{5}{8}$ "	1.13
$\frac{3}{4}$ "	1.63
1"	2.89

## ARCHITECTURAL BRONZE HALF ROUND

Dia.	Weight per foot
$\frac{1}{4}$ "	.10 lb.

## ARCHITECTURAL

## BRONZE CHANNELS Sharp Corners

Size	Weight per foot
$\frac{1}{2}$ " x $\frac{1}{2}$ " x $\frac{3}{16}$ "	.44 lb.
$\frac{3}{4}$ " x $\frac{3}{8}$ " x $\frac{1}{8}$ "	.57
$\frac{3}{4}$ " x $\frac{3}{4}$ " x $\frac{1}{8}$ "	.90
1" x $\frac{1}{2}$ " x $\frac{1}{8}$ "	.85
1" x $\frac{3}{4}$ " x $\frac{1}{8}$ "	1.04

$1\frac{1}{4}$ " x $\frac{1}{2}$ " x $\frac{1}{8}$ "	.91
$1\frac{1}{4}$ " x $\frac{5}{8}$ " x $\frac{1}{8}$ "	1.06
$1\frac{1}{4}$ " x $1\frac{1}{4}$ " x $\frac{1}{8}$ "	1.60
$1\frac{1}{2}$ " x $\frac{1}{2}$ " x $\frac{1}{8}$ "	1.02
$1\frac{1}{2}$ " x $\frac{5}{8}$ " x $\frac{1}{8}$ "	1.12

2" x $\frac{3}{4}$ " x $\frac{1}{8}$ "	1.47
$2\frac{1}{4}$ " x $\frac{7}{8}$ " x $\frac{1}{8}$ "	1.75

## ARCHITECTURAL BRONZE ANGLES Equal Leg

### Sharp Corners

Size	Weight per foot
$\frac{1}{2}$ " x $\frac{1}{2}$ " x $\frac{1}{8}$ "	.42 lb.
$\frac{5}{8}$ " x $\frac{5}{8}$ " x $\frac{1}{8}$ "	.52
$\frac{3}{4}$ " x $\frac{3}{4}$ " x $\frac{1}{8}$ "	.64
1" x 1" x $\frac{1}{8}$ "	.89
1" x 1" x $\frac{3}{16}$ "	1.30

$1\frac{1}{4}$ " x $1\frac{1}{4}$ " x $\frac{1}{8}$ "	1.09
$1\frac{1}{2}$ " x $1\frac{1}{2}$ " x $\frac{1}{8}$ "	1.35
$1\frac{1}{2}$ " x $1\frac{1}{2}$ " x $\frac{1}{4}$ "	2.52
2" x 2" x $\frac{1}{8}$ "	1.79
2" x 2" x $\frac{1}{4}$ "	3.37

$2\frac{1}{2}$ " x $2\frac{1}{2}$ " x $\frac{1}{4}$ "	4.33
3" x 3" x $\frac{1}{4}$ "	5.25

## ARCHITECTURAL BRONZE ANGLES Unequal Leg Sharp Corners

Size	Weight per foot
$\frac{3}{4}$ " x $\frac{3}{8}$ " x $\frac{1}{8}$ "	.45 lb.
1" x $\frac{1}{2}$ " x $\frac{1}{8}$ "	.65
1" x $\frac{3}{4}$ " x $\frac{1}{8}$ "	.75

$1\frac{1}{4}$ " x $\frac{3}{4}$ " x $\frac{1}{8}$ "	.88
$1\frac{1}{2}$ " x 1" x $\frac{1}{8}$ "	1.10
2" x 1" x $\frac{1}{8}$ "	1.33

Also see page 84.

## ARCHITECTURAL BRONZE TEES Sharp Corners

Size	Weight per foot
$\frac{3}{4}$ " x $\frac{3}{4}$ " x $\frac{1}{8}$ "	.64 lb.
1" x 1" x $\frac{1}{8}$ "	.89
$1\frac{1}{2}$ " x $1\frac{1}{2}$ " x $\frac{3}{16}$ "	1.94

For other architectural bronze items, see catalog sections on "Railings"—"Saddles and Nosings"—"Mouldings and Extrusions."

All Bronze Bars, Shapes, Mouldings and Tubing in our stock are of the same color. There is no possibility of accidental mismatching of colors or alloys.

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# ALUMINUM BARS AND SHAPES

11

ALLOY 6063-T5 (63S-T5) — Suitable for Alumiliting

16 foot lengths, except as noted

## ALUMINUM FLATS Sharp Corners

Size	Weight per foot
1/8" x 1/2"	.075 lb.
1/8" x 5/8"	.094
1/8" x 3/4"	.113
1/8" x 1"	.150
1/8" x 1 1/8"	.169
1/8" x 1 1/4"	.187
1/8" x 1 1/2"	.226
1/8" x 1 3/4"	.263
1/8" x 2"	.300
3/16" x 1/2"	.113
3/16" x 3/4"	.169
3/16" x 1"	.226
3/16" x 1 1/4"	.282
3/16" x 1 1/2"	.337
3/16" x 2"	.450
3/16" x 2 1/2"	.564
1/4" x 1/2"	.150
1/4" x 5/8"	.187
1/4" x 3/4"	.224
1/4" x 1"	.300
1/4" x 1 1/4"	.374
1/4" x 1 1/2"	.450
1/4" x 1 3/4"	.525
1/4" x 2"	.600
1/4" x 2 1/2"	.750
1/4" x 3"	.900
1/4" x 4"	1.200
3/8" x 1/2"	.224
3/8" x 5/8"	.281
3/8" x 3/4"	.338
3/8" x 1"	.450
3/8" x 1 1/4"	.563
3/8" x 1 1/2"	.674
3/8" x 2"	.900
3/8" x 2 1/2"	1.126
3/8" x 3"	1.350
1/2" x 3/4"	.450
1/2" x 1"	.600
1/2" x 1 1/4"	.750
1/2" x 1 1/2"	.900
1/2" x 2"	1.200
1/2" x 2 1/2"	1.500
1/2" x 3"	1.800
3/4" x 1 1/2"	1.350
3/4" x 2"	1.800
3/4" x 2 1/2"	2.250
3/4" x 3"	2.700
1" x 1 1/2"	1.800
1" x 2"	2.400
1" x 3"	3.600

## ALUMINUM HALF ROUND Random Lengths

Size	Weight per foot
1/4" x 1/8"	.03 lb.

## ALUMINUM SQUARES Sharp Corners

Size	Weight per foot
3/8" x 3/8"	.169 lb.
1/2" x 1/2"	.300
5/8" x 5/8"	.468
3/4" x 3/4"	.674
1" x 1"	1.200
1 1/4" x 1 1/4"	1.875
1 1/2" x 1 1/2"	2.700

## ALUMINUM ROUNDS

Dia.	Weight per foot
3/8"	.132 lb.
1/2"	.235
5/8"	.368
3/4"	.530
1"	.942

## ALUMINUM TEES Sharp Corners

Size	Weight per foot
3/4" x 3/4" x 1/8"	.206 lb.
3/4" x 1 1/4" x 1/8"	.280
1" x 3/4" x 1/8"	.244
1" x 1" x 1/8"	.281
1 1/8" x 1 1/8" x 1/8"	.319
1 1/4" x 7/8" x 1/8"	.300
2" x 2" x 3/16"	.856

Also see page 83.

## ALUMINUM ZEEES Sharp Corners

Size	Weight per foot
3/4" x 3/4" x 3/4" x 1/8"	.300 lb.
7/8" x 3/4" x 3/4" x 1/8"	.319
1" x 5/8" x 7/8" x 1/8"	.337

## ALUMINUM CHANNELS Equal Sides

Size	Weight per foot
3/8" x 3/8" x 1/8"	.109"
1/2" x 1/2" x 3/32"	.148
3/4" x 3/4" x 1/8"	.300
1" x 1" x 1/8"	.413
1 1/4" x 1 1/4" x 1/8"	.526
1 1/2" x 1 1/2" x 1/8"	.637
2" x 2" x 1/8"	.863

## ALUMINUM CHANNELS Unequal Sides Sharp Corners

A	B	Thickness	Weight per foot
1/2"	3/8"	1/8"	.150 lb.
5/8"	1"	1/8"	.356
3/4"	3/8"	1/8"	.187
1"	1/2"	1/8"	.263*
1 1/4"	1/2"	1/8"	.300*
1 1/4"	5/8"	1/8"	.337*
1 1/2"	1/2"	1/8"	.337*
1 1/2"	5/8"	1/8"	.374*
1 3/4"	3/4"	1/8"	.450
2"	1/2"	1/8"	.413
2"	1"	1/8"	.564*
2 1/4"	7/8"	1/8"	.563
3"	1 1/2"	1/8"	.563
3"	1"	1/8"	.713

\* 20 foot lengths.

## ALUMINUM ANGLES Equal Legs Sharp Corners

Size	Weight per foot
1/2" x 1/2" x 1/8"	.131 lb.
5/8" x 5/8" x 1/8"	.168
3/4" x 3/4" x 1/8"	.206
1" x 1" x 1/8"	.281
1" x 1" x 3/16"	.408
1 1/4" x 1 1/4" x 1/8"	.356
1 1/4" x 1 1/4" x 3/16"	.519
1 1/2" x 1 1/2" x 1/8"	.431
1 1/2" x 1 1/2" x 3/16"	.633
2" x 2" x 1/8"	.581
2" x 2" x 3/16"	.857
2" x 2" x 1/4"	1.124
3" x 3" x 1/8"	.881

## ALUMINUM ANGLES Unequal Legs Sharp Corners

Size	Weight per foot
1/2" x 1" x 1/8"	.206 lb.
1/2" x 1 1/4" x 1/8"	.244
3/4" x 1" x 1/8"	.244
3/4" x 1 1/2" x 1/8"	.319
1" x 1 1/2" x 1/8"	.356
1" x 2" x 1/8"	.431
1" x 3" x 1/8"	.581
1 1/4" x 3 1/2" x 1/8"	.694

All items can be furnished cut to specified lengths when required.

For other aluminum extruded shapes, see sections on "Railings," "Saddles-Nosings," "Mouldings-Functional Shapes."

TRELLAGE

RAILINGS

SADDLES—NOSINGS

MOULDINGS—FUNCTIONAL SHAPE

ORNAMENTS—HARDWARE

MACHINE

# ALUMINUM TUBING AND PIPE

Alloy 6063-T5 (63S-T5), except as noted. Suitable for aluminizing.

All sizes carried in stock in substantial quantities.

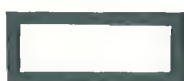


## ALUMINUM SQUARE TUBING

Sharp Corners  
18 foot lengths

Size	Wall Thickness	Weight per foot
1/2" x 1/2" x .062"		.130 lb.
5/8" x 5/8" x .062"		.167
3/4" x 3/4" x .062"		.205
3/4" x 3/4" x .125"		.374
1" x 1" x .062"		.278
1" x 1" x .125"		.525
1 1/4" x 1 1/4" x .078"		.438
1 1/4" x 1 1/4" x .125"		.675
1 1/2" x 1 1/2" x .078"		.532
1 1/2" x 1 1/2" x .125"		.825
1 3/4" x 1 3/4" x .125"		.975
2" x 2" x .078"		.720
2" x 2" x .125"		1.124
2 1/2" x 2 1/2" x .125"		1.424*
3" x 3" x .125"		1.724

\* Alloy 3003-F (3S-F).



## ALUMINUM RECTANGULAR TUBING

Sharp Corners

18 foot lengths, except as noted

Size	Wall Thickness	Weight per foot
1/2" x 1" x .125"		.374 lb.
3/4" x 1 1/2" x .125"		.588
1" x 1 1/2" x .125"		.661
1" x 2" x .125"		.825
1 1/4" x 2 1/2" x .125"		1.050
1 1/2" x 2" x .125"		.967
1 1/2" x 6" x .125"		2.135***
1 3/4" x 2 1/4" x .125"		1.125*
1 3/4" x 3" x .125"		1.323*
1 3/4" x 3 1/2" x .125"		1.470
1 3/4" x 4" x .125"		1.650*
1 3/4" x 5" x .125"		1.910*
2" x 3" x .125"		1.395**
2" x 5" x .125"		1.985*

\* 21 foot lengths.

\*\* 20 foot lengths.

\*\*\* Alloy 3003-F (3S-F) 21 foot lengths.



## ALUMINUM ROUND TUBING

Thin Wall

Alloy 3003-H14 (3S-H14)  
12 foot lengths

Size	Wall Thickness	Weight per foot
1" O.D. x .058"		.202 lb.
1 1/4" O.D. x .058"		.256
1 1/2" O.D. x .065"		.329



## ALUMINUM ROUND TUBING

Standard Pipe Sizes  
20 foot lengths

Nominal Size	O.D.	Wall Thickness	Weight per foot
3/4"	1.050"	.113"	.391 lb.
1"	1.315"	.133"	.581
1 1/4"	1.660"	.140"	.785*
1 1/2"	1.900"	.145"	.940*
2"	2.375"	.154"	1.264

This pipe is of tubing quality, combining accurate dimensions, straightness and superior finish.

\* Alloy 6063-T832 (63S-T832).



## ALUMINUM BEVEL FACE TUBING

Sharp Corners — 21 foot lengths

A	B	C	Wall Thickness	Weight per foot
1 3/4"	1.859"	1 3/4"	.125"	1.090 lb.
1 3/4"	5"	4 7/8"	.125"	1.900



## ALUMILITE FINISH Aluminum Rectangular Tubing

Sharp Corners — 21 foot lengths

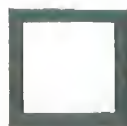
Size	Wall Thickness	Weight per foot
1 3/4" x 3" x .125"		1.323 lb.
1 3/4" x 4" x .125"		1.650
1 3/4" x 5" x .125"		1.910
2" x 5" x .125"		1.985

Upon request, any size of aluminum will be shipped to aluminizing plant for customer's account.

# RED BRASS TUBING AND PIPE

Matches the color of extruded architectural bronze.

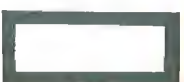
All sizes carried in stock in substantial quantities.



## RED BRASS SQUARE TUBING

Sharp Corners — 16 foot lengths

Size	Wall Thickness	Weight per foot
1/2" x 1/2" x .065"		.43 lb.
5/8" x 5/8" x .065"		.55
3/4" x 3/4" x .065"		.68
1" x 1" x .065"		.92
1 1/4" x 1 1/4" x .083"		1.46
1 1/2" x 1 1/2" x .083"		1.79
2" x 2" x .083"		2.53



## RED BRASS RECTANGULAR TUBING

Sharp Corners — 16 foot lengths

Size	Wall Thickness	Weight per foot
1" x 1/2" x .065"		.65 lb.
1 1/2" x 3/4" x .065"		1.02
1 1/2" x 1" x .083"		1.50
2" x 1" x .083"		1.78
2 1/2" x 1 1/4" x .083"		2.15
3" x 1 1/2" x .083"		2.68
3" x 1 3/4" x .083"		2.83
3" x 2" x .083"		3.05
4" x 1 3/4" x .083"		3.46
4 1/2" x 1 3/4" x .083"		3.98
5" x 1 3/4" x .083"		4.08



## RED BRASS ROUND TUBING

Standard Pipe Sizes

Plain Ends—Unmarked—20 foot lengths

Nominal Size	O.D.	Wall Thickness	Weight per foot
1 1/4"	1.660"	.140"	2.63 lb.
1 1/2"	1.900"	.145"	3.13

All sizes can be furnished cut to specified lengths when required.

Also see sections on "Railings," "Saddles-Nosings" and "Mouldings-Functional Shapes."



# TREILLAGE

ORNAMENTAL double faced castings in this section are made of high grade malleable iron. They will not break under ordinary conditions and will withstand considerable abuse. They may be bent cold to meet individual conditions such as may occur on curved railings, etc. They may be welded into the frame work and they can be hammered or given any type of finish.

Castings are clean in appearance with every detail executed perfectly.

Every item listed in this section is carried in stock in substantial quantities. Shipment usually can be made immediately upon receipt of order.

## Approximate Weights of Double Faced Ornamental Castings:

No. 511	11.2 lbs.	No. 525	4.2 lbs.
No. 512	4.0 lbs.	No. 526	2.6 lbs.
No. 513	25.2 lbs.	No. 527	3.7 lbs.
No. 514	3.4 lbs.	No. 537	4.4 lbs.
No. 515	8.7 lbs.	No. 538	7.4 lbs.
No. 515-B	4.9 lbs.	No. 539	8.2 lbs.
No. 516	3.7 lbs.	No. 540*	9.0 lbs.
No. 517	12.0 lbs.	No. 541*	10.0 lbs.
No. 518	11.3 lbs.	No. 550	6.7 lbs.
No. 519	12.5 lbs.	No. 551	2.4 lbs.
No. 520*	10.5 lbs.	No. 552	4.3 lbs.
No. 521*	16.0 lbs.	No. 555	7.3 lbs.
No. 522*	8.4 lbs.	No. 556	7.9 lbs.
No. 523*	6.9 lbs.	No. 557	12.1 lbs.
No. 524	4.3 lbs.	No. 558	14.0 lbs.

Items marked \* can also be furnished in aluminum

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A typical application showing the use of castings No. 520 to No. 527.

For details of castings see opposite page.

A typical application showing the use of castings No. 511 to No. 515.

For details of castings, see page 16.



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# ORNAMENTAL DOUBLE FACED CASTINGS

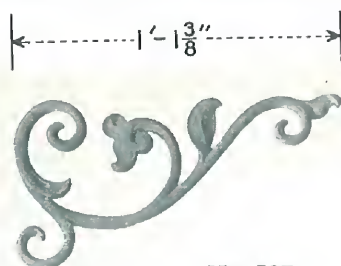
15

UNBREAKABLE MALLEABLE IRON

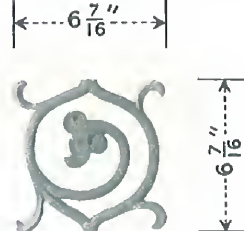
SCALE:  $1\frac{1}{2}" = 1'-0"$



No. 525  
End Panel



No. 527  
Corner Bracket



No. 526  
Corner Rosette

A series of related designs which may be combined to meet required dimensions and conditions. See illustration page 14.  
For approximate weights of castings, see page 13.



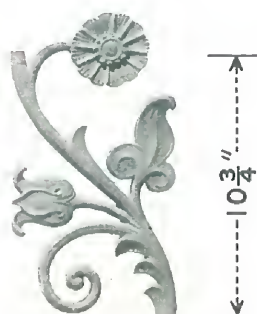
No. 522  
Continuous Design



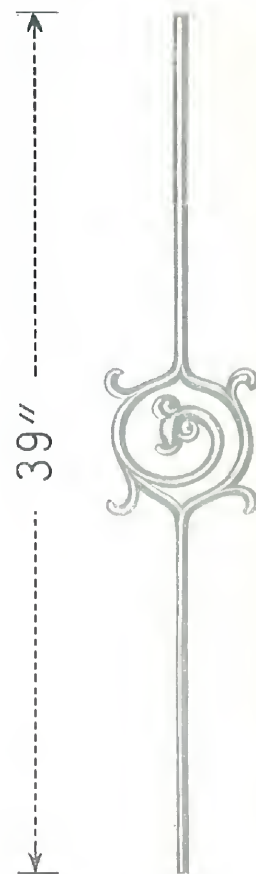
No. 521  
Railing Panel



No. 520  
Railing Panel



No. 524  
Starting Panel



No. 532  
Baluster  
 $\frac{5}{8}"$  round ends



No. 523  
Continuous Design

Castings No. 520 and No. 521 are suited for railing panels.

Castings No. 522 and No. 523 may be repeated or alternated.

Castings No. 524 and No. 525 are used as starting and end panels, together with Castings No. 522 and No. 523.

All castings are reversible.

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RAILINGS

SADDLES—NOSINGS

MOULDINGS—FUNCTIONAL SHAPE

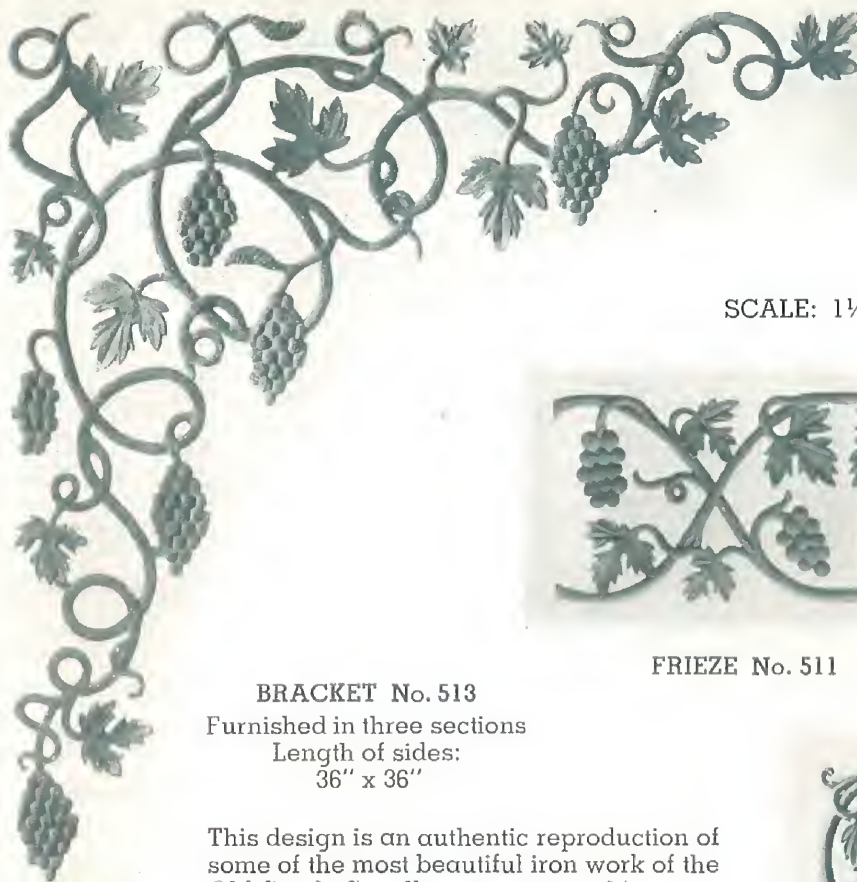
ORNAMENTS—HARDWARE

MACHINE



# ORNAMENTAL DOUBLE FACED CASTINGS

UNBREAKABLE MALLEABLE IRON



**BRACKET No. 513**

Furnished in three sections  
Length of sides:  
36" x 36"

This design is an authentic reproduction of some of the most beautiful iron work of the Old South. See illustration page 14.



**VALANCE No. 514**  
Length: 14" Height: 6½"

SCALE: 1½" = 1'-0"



**FRIEZE No. 511** Length: 31" Width: 8¼"

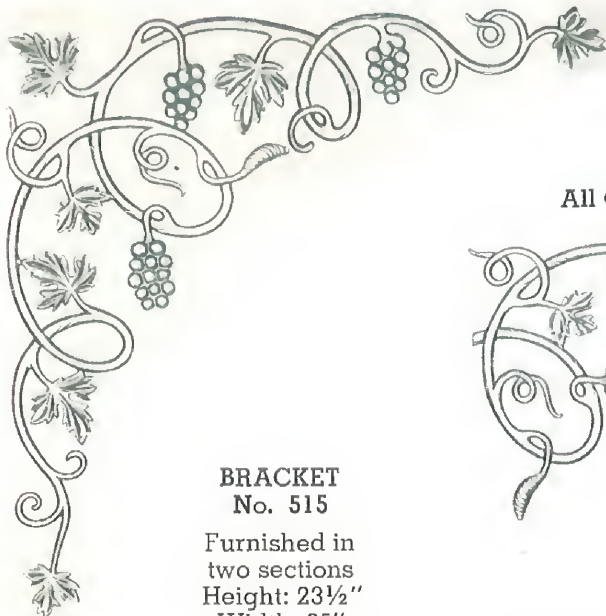


**CORNER ROSETTE No. 512**  
Height: 8¼" Width: 8¼"



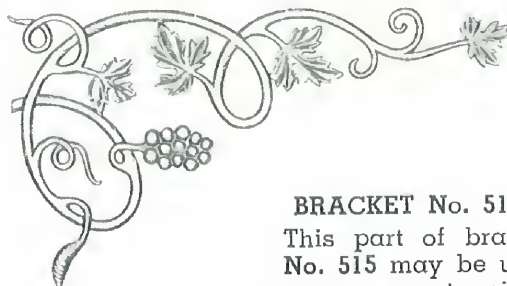
For Column or Railing  
Panel—No. 510  
Height: 29" Width: 8¼"

All Castings are Reversible



**BRACKET No. 515**

Furnished in two sections  
Height: 23½"  
Width: 25"



**BRACKET No. 515-B**  
This part of bracket No. 515 may be used as a separate piece.  
Height: 11½" Width: 21"

For approximate weights of castings, see page 13.

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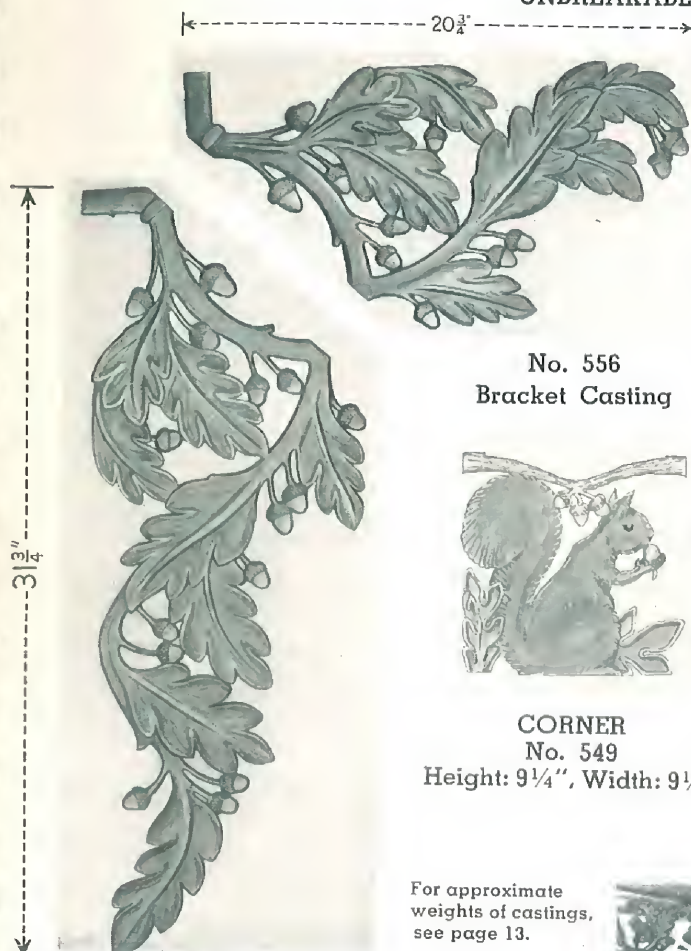
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# ORNAMENTAL DOUBLE FACED CASTINGS

UNBREAKABLE MALLEABLE IRON

17

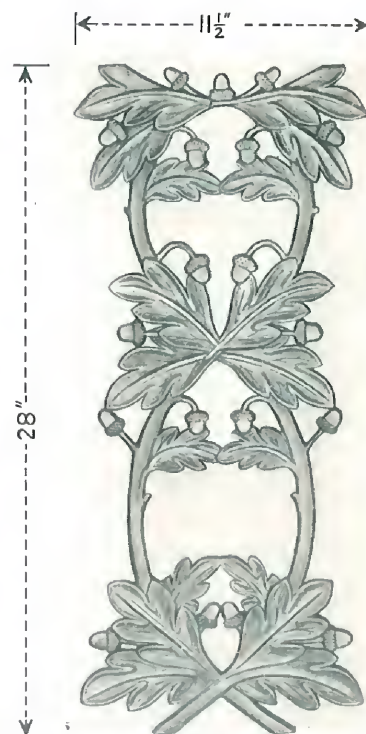


No. 556  
Bracket Casting

CORNER  
No. 549  
Height: 9 1/4", Width: 9 1/4"



No. 555  
Continuous Design



No. 558  
Railing Panel

ALL CASTINGS ARE REVERSIBLE

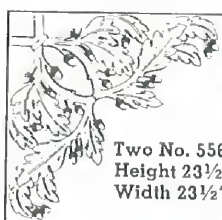
For approximate  
weights of castings,  
see page 13.

No. 557  
Bracket Casting

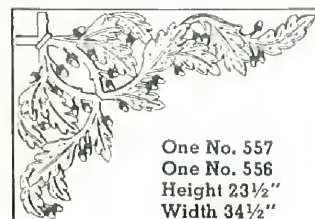
Details below show assembly of castings  
No. 556 and No. 557 into Brackets of various sizes.



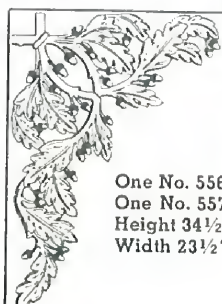
Two No. 557  
Height 34 1/2"  
Width 34 1/2"



Two No. 556  
Height 23 1/2"  
Width 23 1/2"



One No. 557  
One No. 556  
Height 23 1/2"  
Width 34 1/2"



One No. 556  
One No. 557  
Height 34 1/2"  
Width 23 1/2"



A TYPICAL APPLICATION OF CASTINGS NO. 555 to NO. 558

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RAILINGS

SADDLES—NOSINGS

MOULDINGS—FUNCTIONAL SHAPE

ORNAMENTS—HARDWARE

MACHINE



# ORNAMENTAL DOUBLE FACED CASTINGS

UNBREAKABLE MALLEABLE IRON

SCALE: 1½" = 1'-0"



No. 550

Height ..... 34"  
Width ..... 7½"



No. 551

Height ..... 7½"  
Width ..... 7½"



No. 552

Length ..... 19"  
Height ..... 10"

A series of designs to produce a graceful scroll-like effect. Although delicate and light in appearance these castings have ample strength for all practical purposes and are easily assembled.

No. 551 Casting may be used for corner terminations or railing panels.

No. 552 Casting is also adaptable as a hanging sign or lamp bracket.



MALLEABLE IRON

•

NO BREAKAGE

•

ALL CASTINGS  
ARE REVERSIBLE

For approximate weights  
of castings, see page 13.

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# ORNAMENTAL DOUBLE FACED CASTINGS

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MALLEABLE IRON • NO BREAKAGE

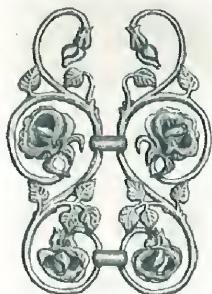
SCALE  $1\frac{1}{2}" = 1'-0"$

ALL CASTINGS ARE REVERSIBLE



No. 572  
Continuous Design

Height:  $22\frac{1}{2}"$   
Width:  $6\frac{3}{8}"$



No. 570 Panel

For railings or columns.

Height:  $12\frac{1}{2}"$   
Width:  $8\frac{1}{2}"$

Can be attached to  
square balusters  
in the same way  
as castings on page 51.



No. 573  
Corner Rosette

Height:  $6\frac{3}{8}"$   
Width:  $6\frac{3}{8}"$



No. 574  
Corner Bracket

Height:  $10\frac{1}{4}"$   
Width:  $16"$

This series is a fine new design  
based on the popular rose pattern.



No. 571 Railing Panel

Height:  $28"$   
Width:  $11"$



A typical application showing the use of castings Nos. 570 to 574.

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RAILINGS

SADDLES—NOSINGS

MOULDINGS—FUNCTIONAL SHAPE.

ORNAMENTS—HARDWARE

MACHINE



## RAILING DESIGN



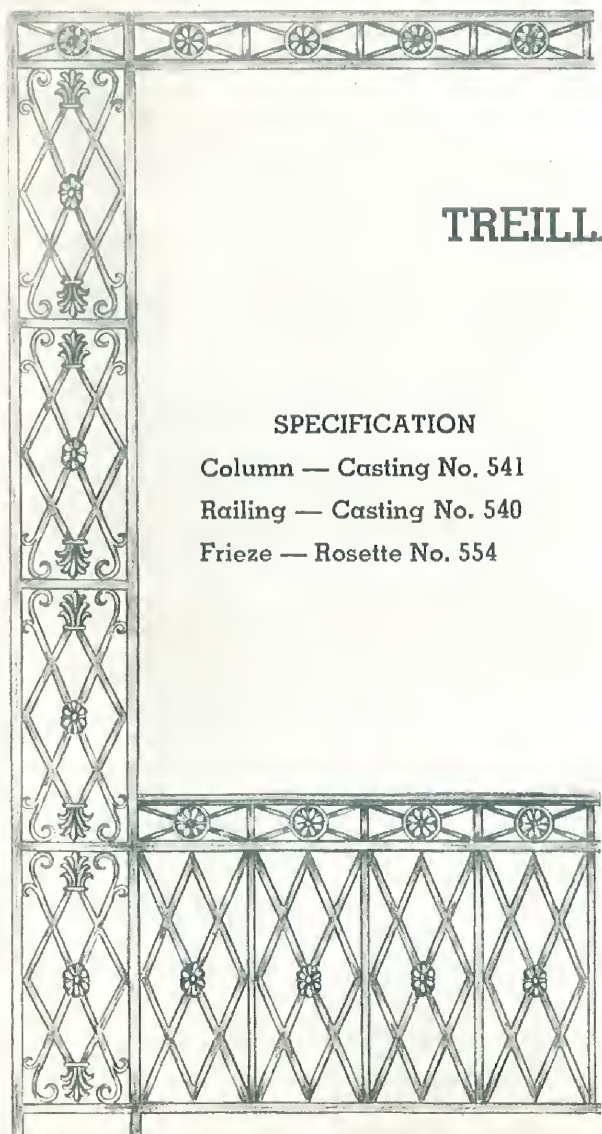
## SPECIFICATION

End Panel and Center Panel — Casting No. 538  
Ornamental Baluster — No. 529

## TREILLAGE DESIGNS

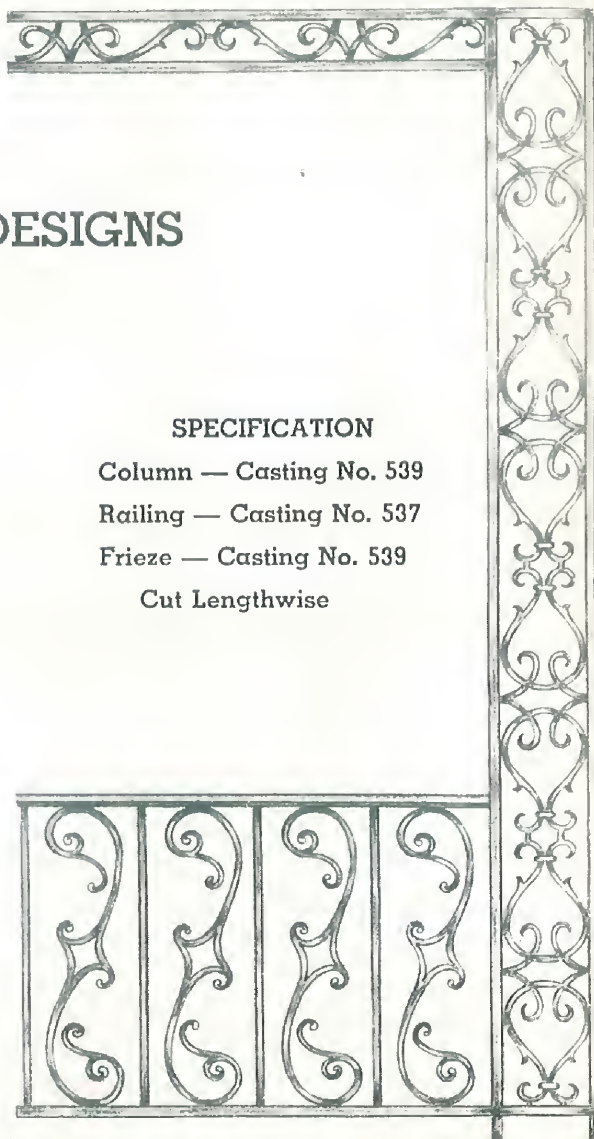
## SPECIFICATION

Column — Casting No. 541  
Railing — Casting No. 540  
Frieze — Rosette No. 554



## SPECIFICATION

Column — Casting No. 539  
Railing — Casting No. 537  
Frieze — Casting No. 539  
Cut Lengthwise



# ORNAMENTAL DOUBLE FACED CASTINGS

UNBREAKABLE MALLEABLE IRON

SCALE: 1½" = 1'-0"

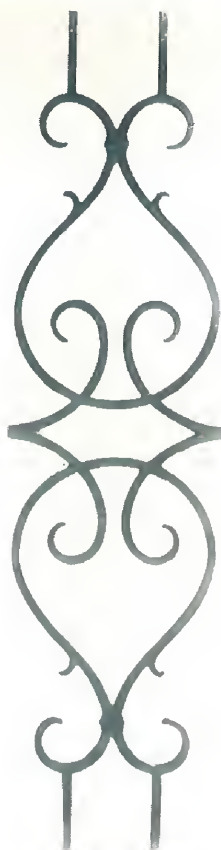
21



No. 538



No. 537



No. 539



No. 537



No. 538

## DIMENSIONS

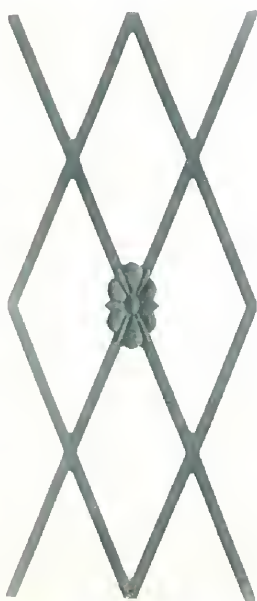
Casting No.	Height overall	Height Scroll only	Width	Cross Section
537	37"	28"	8¼"	{ Scroll ½" x ⅝" Ends ½" x ½"
538	33"	29"	9¼"	{ Scroll ⅝" x ⅞" Ends ½" x ½"
539	34"	26½"	8½"	{ Scroll ⅝" x ⅞" Ends ½" x ½"
540	24"		10⅝"	⅝" x ½"
541	24"		10⅝"	⅝" x ½"

These castings are reproductions of attractive wrought iron designs.

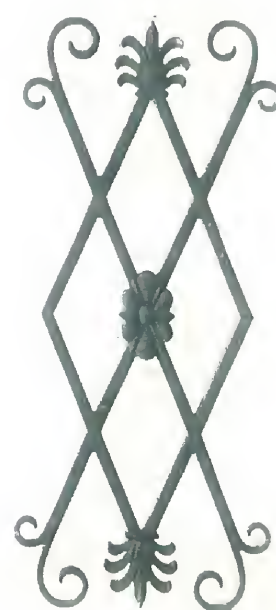
Castings No. 537, No. 538 and No. 539 can be cut down to the required length without interfering with the design.

Castings No. 540 and No. 541 can be used together in the same panel.

For approximate weights of castings, see page 13.



No. 540



No. 541

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RAILINGS

SADDLES—NOSINGS

MOULDINGS—FUNCTIONAL SHAPE

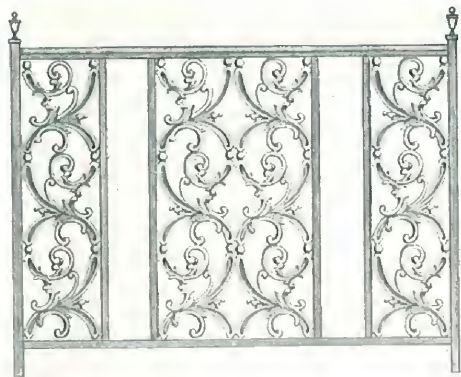
ORNAMENTS—HARDWARE

MACHINE

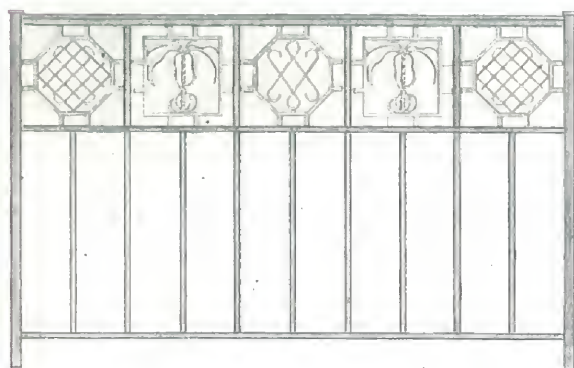


TYPICAL APPLICATIONS OF  
**ORNAMENTAL DOUBLE FACED CASTINGS**  
 FOR COLUMNS AND RAILINGS

NOT TO SCALE



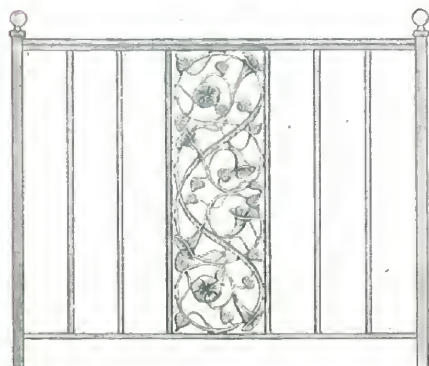
Railing Showing Casting No. 576



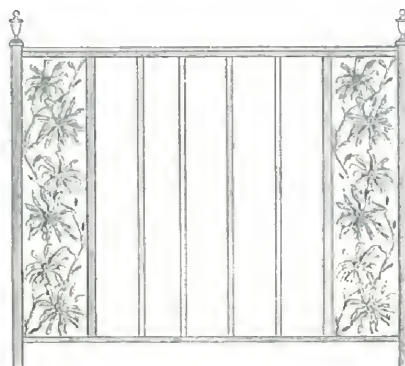
Railing Showing Castings Nos. 591, 593 and 594

Castings  
No. 584Castings  
No. 580Castings  
No. 576Castings  
Nos. 591 to 595

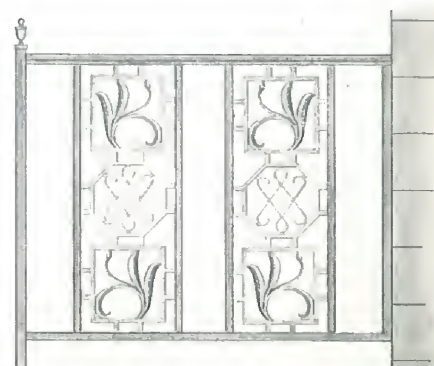
These illustrations are offered as suggestions only. We do not manufacture or assemble railings and columns.



Railing Showing Casting No. 580



Railing Showing Casting No. 584



Railing with Casting Nos. 592 and 594

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# ORNAMENTAL DOUBLE FACED CASTINGS

UNBREAKABLE MALLEABLE IRON

SCALE 1½" = 1'-0"

23

These new castings, representing classic and modern designs, can be used singly or in continuous runs.

They are clean in appearance with every detail executed perfectly.

All castings are reversible.

See page 22 for typical applications.



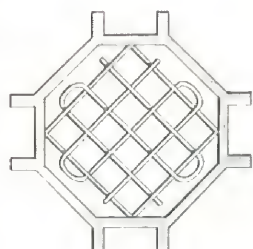
No. 576  
Height: 29"  
Width: 8"



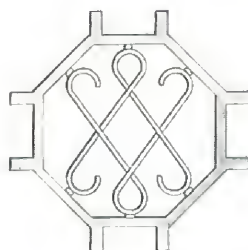
No. 584  
Height: 29"  
Width: 6½"



No. 580  
Height: 28"  
Width: 9"



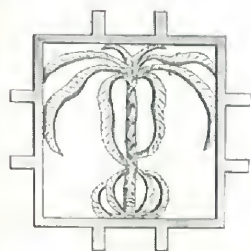
No. 593



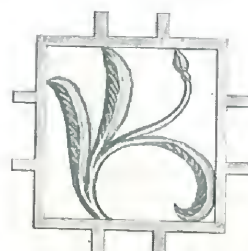
No. 594

Castings No. 591 to 595 can be combined to produce interesting modern designs.

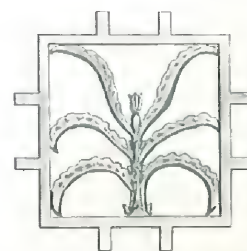
All have identical dimensions:  
Size, over all: 10" x 10"  
Size, without legs: 8" x 8"  
Cross section: frame ⅜" x ⅝"  
legs ½" x ⅝"



No. 591



No. 592



No. 595

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RAILINGS

SADDLES—NOSINGS

MOULDINGS—FUNCTIONAL SHAPE

ORNAMENTS—HARDWARE

MACHINE



# ORNAMENTAL DOUBLE FACED CASTINGS

UNBREAKABLE MALLEABLE IRON

Scale:  $1\frac{1}{2}" = 1'-0"$



No. 517  
Height:  $34\frac{1}{2}"$   
Width:  $7\frac{5}{8}"$



No. 518  
Height:  $35\frac{1}{2}"$   
Width:  $7\frac{5}{8}"$



No. 519  
Height:  $32"$   
Width:  $7\frac{5}{8}"$



No. 516  
Length:  $13\frac{1}{4}"$   
Height:  $8\frac{1}{4}"$

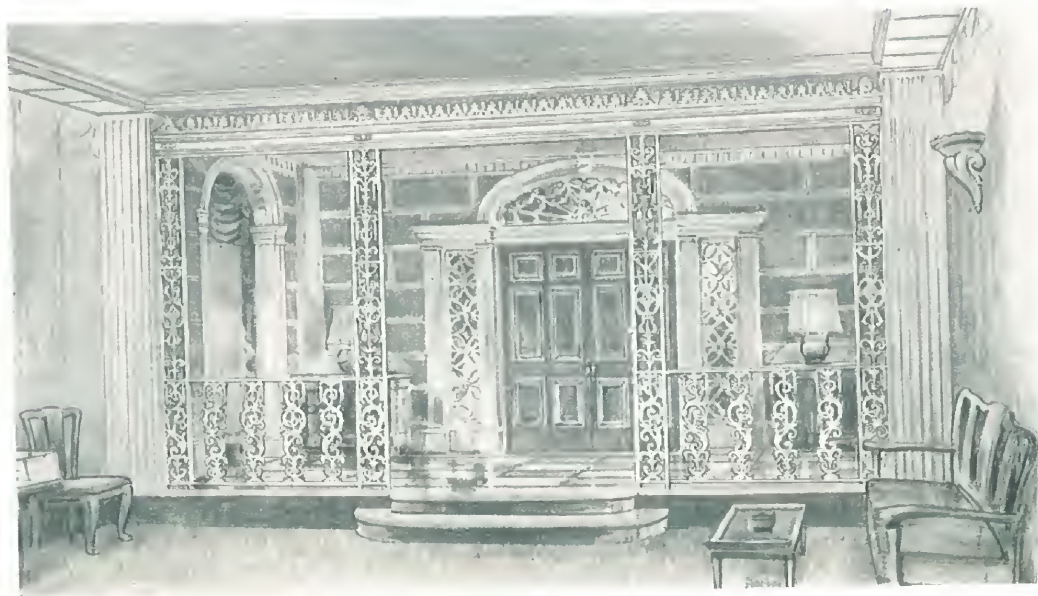
This series of Castings represents an authentic old design. The three panels can be used in combination, as shown below. They also make attractive railing panels.

All castings are reversible.

For approximate weights of castings, see page 13.

MALLEABLE IRON

NO BREAKAGE



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# 

Unbreakable Malleable Iron

Scale (individual panels) 1 1/2" = 1'-0"

*Sketches of typical Applications not to scale*

Each panel has two collars, open on one side, to fit 1/2" square bar. The center bar may run continuously from top to bottom of column, or in short sections to form connection between panels.

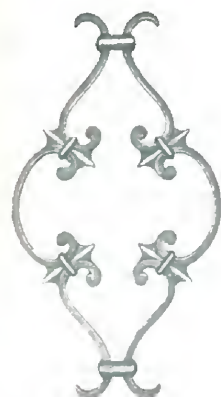
For greater variety, ornamental balusters or baluster collars may alternate with panel castings. See pages 41, 43 and 48.



No. 559  
Height 15"  
Width 7"



No. 561  
Height 12"  
Width 8 1/2"



No. 567  
Height 16"  
Width 8 1/2"



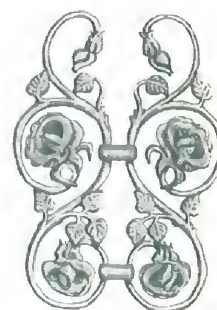
No. 565  
Height 15"  
Width 8 1/2"



No. 560  
Height 16"  
Width 8 1/2"

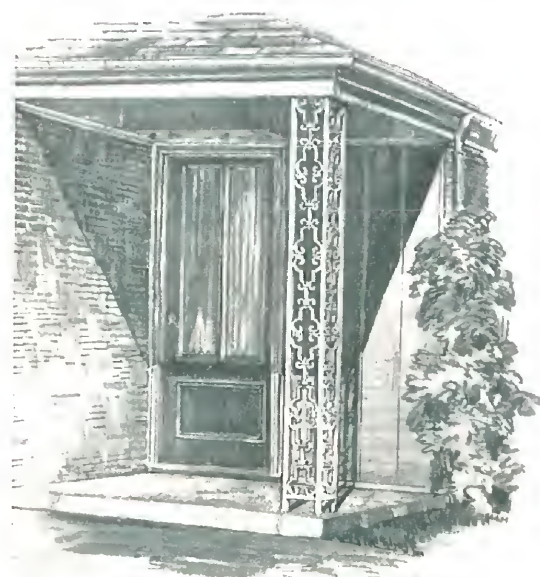


No. 566  
Height 16"  
Width 7"



No. 570  
Height 12 1/2"  
Width 8 1/2"

Illustrations below are offered as suggestions only. We do not furnish assembled columns.



No. 559



No. 565



No. 559  
with collar  
No. 365



No. 560  
with baluster  
No. 528



No. 560

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# CAST IRON CRESTINGS

For the Construction of Marquises, Awning Boxes, Show Cases, Etc.



No. 506

Illustrations shown are ONE-QUARTER actual size

Corners Nos. 500 and 502 and Corners Nos. 505 and 507 are cast on a mitre and will form a perfect right or left corner. Corners Nos. 505 and 507 and Centers Nos. 506 and 509 have lugs in back for fastening. Crestings Nos. 500, 501 and 502 as well as 503 form continuous interlocking designs. Crestings Nos. 505, 506, 507, 509 can be used as a continuous design or they may be spaced at intervals.

Our Cast Iron Crestings are a Finished Product of Superb Quality

NO PATTERNS

NO WAITING

NO FINISHING

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# RAILINGS

EVERY item listed in this section is carried in stock in substantial quantities and shipment usually can be made immediately upon receipt of order.

All rolled and extruded shapes in this section are carried in stock in long random lengths. With the exception of Hot Rolled Steel Handrails, they can also be furnished cut to specified lengths. Weights are shown in pounds per lineal foot. These weights are approximate and, while they have been ascertained with care, they cannot be guaranteed. Materials sold by the pound are invoiced according to actual scale weight.

All bronze items, extrusions as well as castings, are of matching color.

All aluminum extrusions are alloy 6063 (63-S); all aluminum castings are alloy 214. These alloys are recommended for architectural work because of their bright color, ease of fabrication and corrosion resistance. They are suitable for alumilinting.

Since all our bronze and aluminum items are of uniform composition, the chance of accidental mis-matching of alloys or colors through shipping errors is eliminated.

## Subjects covered in this section:

Rolled Steel	Page No.	Railing Fittings (cont'd)	Page No.
Handrail Mouldings .....	28, 29, 30, 33	For Bronze Pipe Railings .....	61
Baluster Bars and Posts .....	44, 46 to 49	For Aluminum Pipe Railings .....	62, 63
Loafers Rail .....	41	Handrail Brackets, Iron .....	32, 60
Square Bar, Channel .....	29	Handrail Brackets, Bronze, Aluminum .....	37, 61 to 63
Newel Post Tubing .....	56		
<b>Extruded Aluminum</b>		<b>Ornamental Balusters, Posts, Collars, Bases</b>	
Handrail Mouldings .....	34, 35	Balusters, Forged Steel .....	44, 48, 49
Handrail Pipe .....	63	Spindles, Forged Steel .....	44, 47
<b>Extruded Bronze</b>		Spindles, Hollow .....	46
Handrail Mouldings .....	33, 35	Starting Posts .....	44, 45
Handrail Pipe .....	61	Collars and Bases, Iron, Bronze, Aluminum .....	42, 43
Tie Band Strip .....	41	Baluster Collars, Ornamental .....	41
<b>Railing Fittings</b>		<b>Ornamental Railing Panels</b> .....	50 to 55
For Steel Handrail Moulding .....	30 to 33	<b>Urns and Finials, Iron, Bronze, Aluminum</b> .....	38 to 40
For Aluminum and Bronze Handrail Moulding .....	36, 37	<b>Sockets, for Square Tubes and Posts</b> .....	42
For Steel Pipe Railings .....	58 to 60	<b>Post Caps, Iron, Steel, Bronze, Aluminum, Stainless Steel</b> .....	57

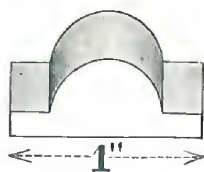
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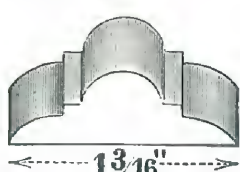
## ROLLED STEEL HANDRAILS

No. 4403



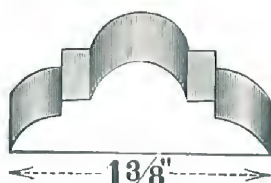
.82 lb.

No. 4411



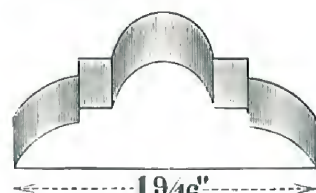
1.09 lb.

No. 4412



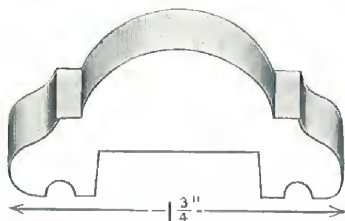
1.31 lb.

No. 4413



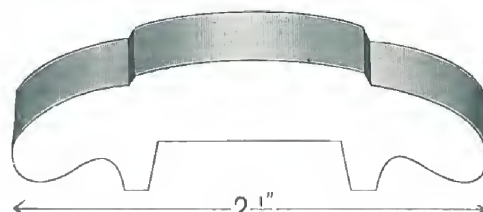
1.65 lb.

No. 4446



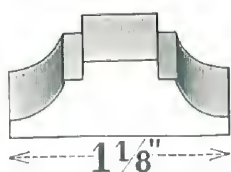
2.18 lb.

No. 4440



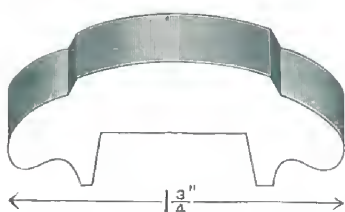
3.52 lb.

No. 4474



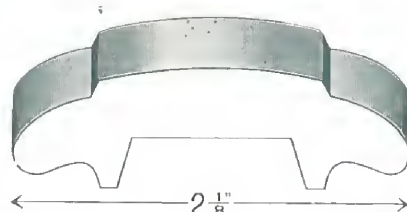
.96 lb.

No. 4420



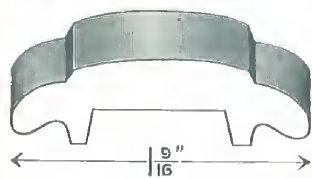
2.15 lb.

No. 4430



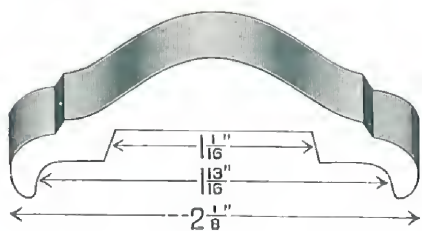
2.65 lb.

No. 4400



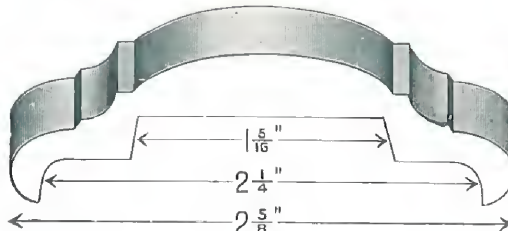
1.02 lb.

No. 4438

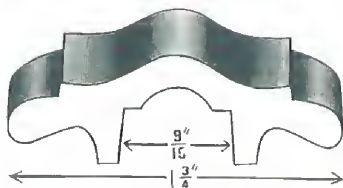


1.71 lb.

No. 4439



2.12 lb.



No. 4437

1.50 lb.

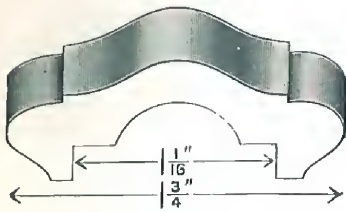
Handrail No. 4437 is especially designed for welding of 1/2" square balusters directly to its underside. It can also be used with 1 1/4" Channel.

Also see page 33.

# ROLLED STEEL HANDRAILS

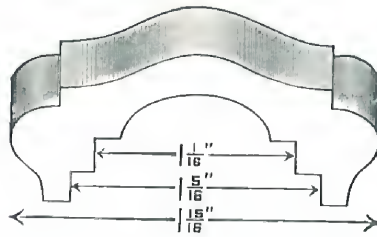
29

No. 4429



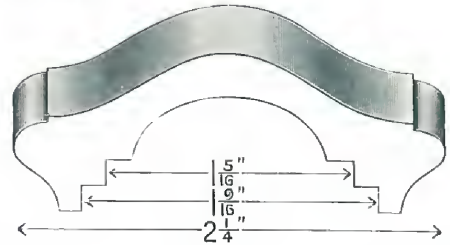
1.60 lb.

No. 4428



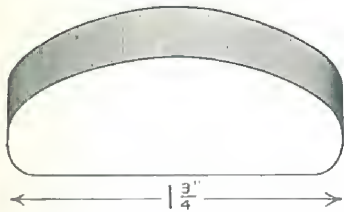
1.95 lb.

No. 4441



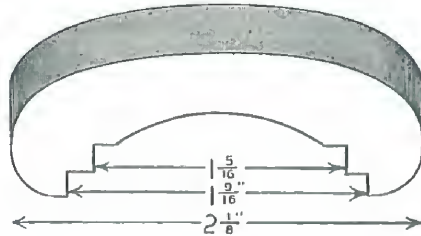
2.00 lb.

No. 4415



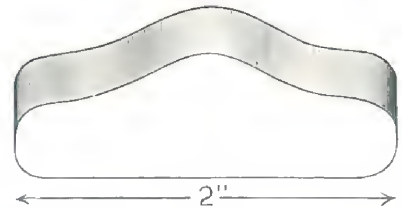
3.04 lb.

No. 4435



2.63 lb.

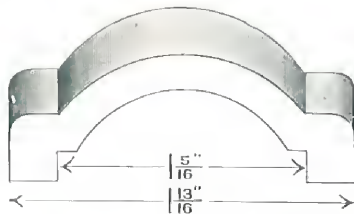
No. 4416



3.15 lb.

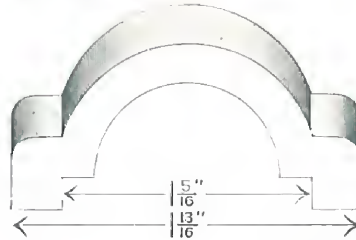
Handrails above are rolled from especially soft steel to facilitate bending.  
Handrails below are made of soft cold rolled steel having a smooth bright surface.

No. 4426



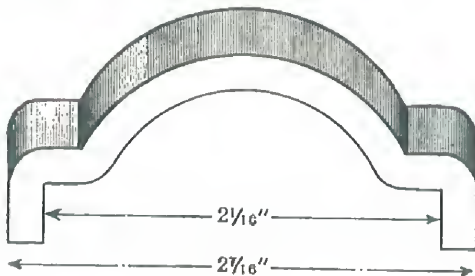
1.35 lb.

No. 4427



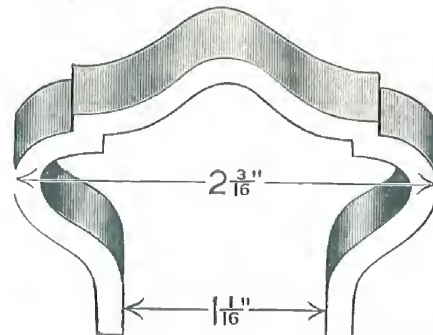
1.43 lb.

No. 4425



2.01 lb.

No. 4434



1.76 lb.

We carry in stock the following sizes of Hot Rolled Bars, for use in the manufacture of railings



**HOT ROLLED STEEL CHANNEL**

1" x 1/2" x 1/8" .80 lb.



**HOT ROLLED STEEL SQUARE BAR**

1/2" x 1/2" .85 lb.

ALSO SEE PAGE 56 FOR STRUCTURAL SQUARE TUBING

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SADDLES—NOSINGS

MOULDINGS—FUNCTIONAL SHAPE.

ORNAMENTS—HARDWARE

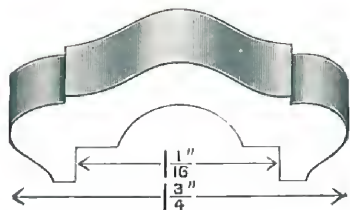
MACHINE



# ROLLED STEEL HANDRAILS WITH MATCHED FITTINGS

These Handrails are rolled from especially soft steel to facilitate bending.

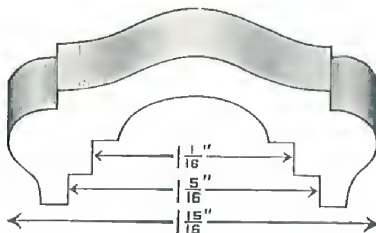
No. 4429



1.60 lb.

Fits over 1" flat bar  
or channel

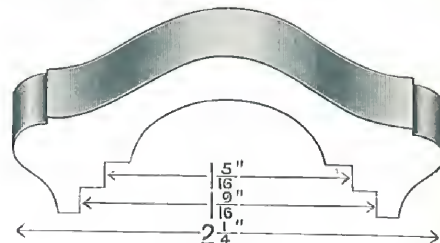
No. 4428



1.95 lb.

Fits over 1" or 1 1/4" flat  
bar or channel

No. 4441



2.00 lb.

Fits over 1 1/4" or 1 1/2" flat  
bar or channel

Handrail Fittings. Match the profiles of Handrails No. 4428, 4429 and 4441.

STRAIGHT LAMB'S TONGUE



VOLUTE



Handrail Fittings are made of malleable iron and can be welded to the end of the handrail.

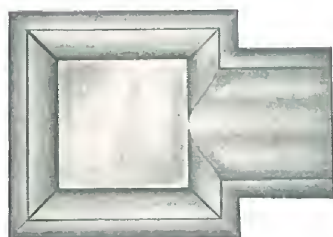
BEVEL  
LAMB'S TONGUE

CORNER BEND

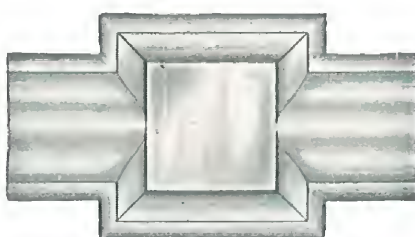


Radius 2 1/2" to  
center of handrail

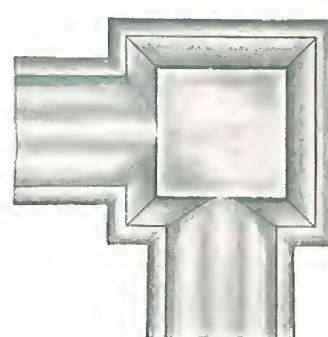
TERMINAL



CENTER PIECE "T"



CORNER PIECE "L"



Center Piece "T" and Corner Piece "L"  
Furnished for Handrails No. 4428 and 4429 only.

WHEN ORDERING, STATE NUMBER OF HANDRAIL AND TYPE OF FITTING.

**JULIUS BLUM & CO., INC. • CARLSTADT, N. J.**

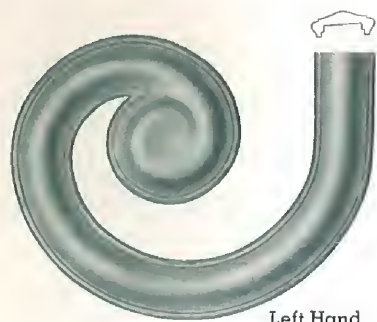
OXford 5-2236 • PhiladelphiA Phone: MArket 7-7596 New Jersey Phone: GENEva 8-4600 • New York Phone:

# HANDRAIL FITTINGS

FOR ROLLED STEEL HANDRAILS  
Nos. 4428, 4429 and 4441

## MOULDED LATERAL SCROLL

Moulded Lateral Scrolls are carried in stock to match the profile of Handrails 4428, 4429 and 4441. They are made of malleable iron, may be bent to conform to required bevel and welded to the end of handrail.



Left Hand



Right Hand

Full size details furnished upon request.

## CHANNEL LATERAL SCROLL

Malleable Iron

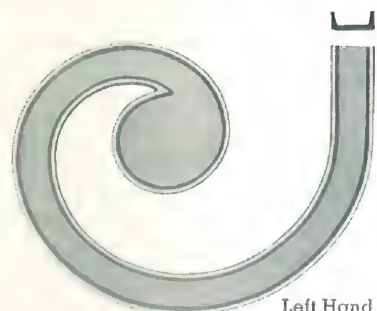
Fit the underside of our moulded Lateral Scrolls.  
Three sizes:

1" x 1/2" x 1/8" Channel for No. 4429

1 1/4" x 1/2" x 1/8" Channel for No. 4428

1 1/2" x 1/2" x 1/8" Channel for No. 4441

They also fit our Bronze and Aluminum Lateral Scrolls. May be punched, bent to conform to required bevel and welded.



Left Hand



Right Hand

## JUNIOR LATERAL SCROLL



Left Hand

Furnished for  
Handrail  
No. 4429 only.

Malleable iron.



Right Hand

## JUNIOR CHANNEL LATERAL SCROLL



Left Hand

Malleable Iron  
1" x 1/2" x 1/8"  
Channel

Fits the under-  
side of Junior  
Lateral Scroll  
No. 4429.



Right Hand

## FLAT BAR LATERAL SCROLL

Fit the underside of Moulded Lateral Scrolls.

Three sizes: 1" x 3/8" Flat for No. 4429

1 1/4" x 3/8" Flat for No. 4428

1 1/2" x 3/8" Flat for No. 4441

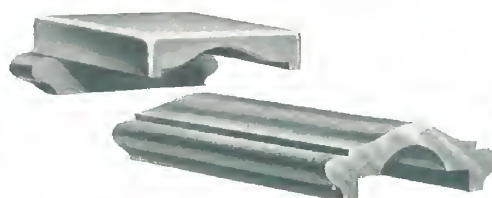
Flat Bar Lateral Scrolls are made of rolled steel and will not break. They can be punched, bent and welded. They also fit our bronze and aluminum Lateral Scrolls.

Reversible for  
Right and Left  
Hand Rails.

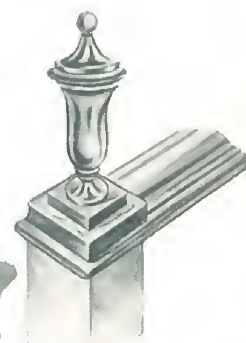


## END URN BASE

Furnished for Handrail No.  
4429 only. Malleable iron.



The Urn Base terminates the handrail and also provides a flat base for Urn or Ball Finial. It may be welded to the handrail or merely held in place by the stud which connects the Finial to the Post. It is drilled for 3/8" bolt.



## HANDRAIL WALL FLANGE

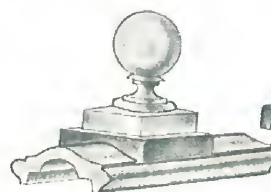


No. 401

Made of heavy gauge  
steel suitable for weld-  
ing to underside of  
channel or top rail.



## CENTER URN BASE Malleable Iron



Fits Handrails  
No. 4429 and No. 4437.

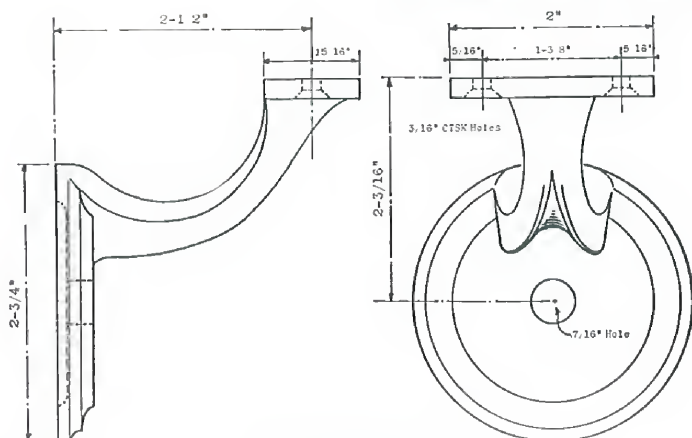
Drilled for 3/8" bolt.

WHEN ORDERING, STATE NUMBER OF HANDRAIL AND TYPE OF FITTING

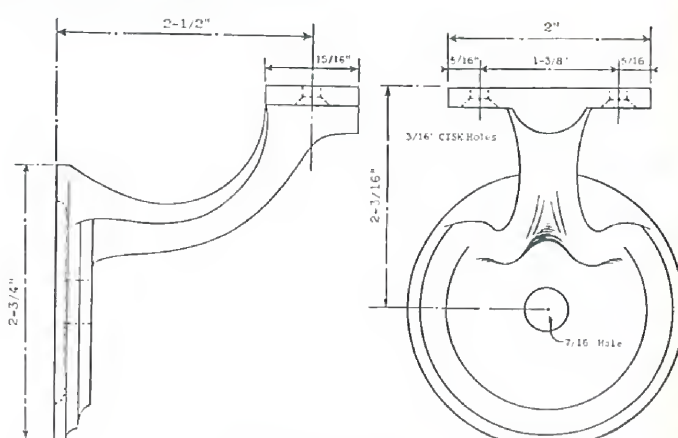


# HANDRAIL WALL BRACKETS

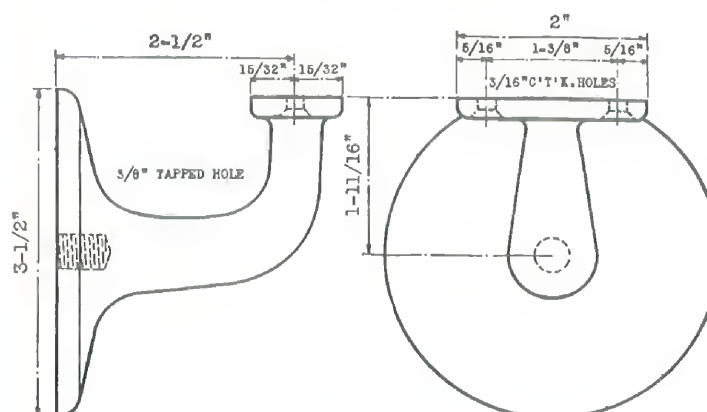
For Handrail Moulding or Flat Handrail,  
details are about one half actual size



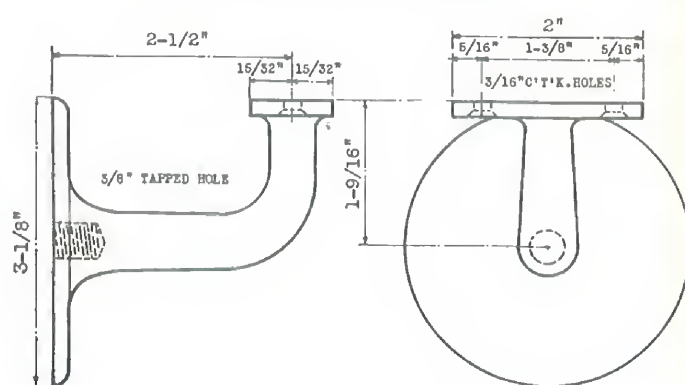
No. 379—Cast Iron  
2½" from wall to center of rail



No. 381—Malleable Iron  
2½" from wall to center of rail

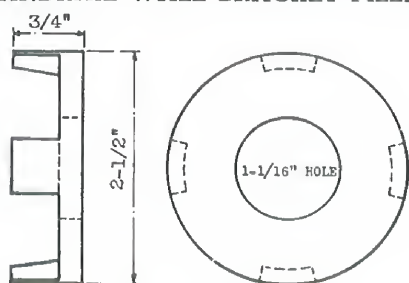


No. 373—Cast Iron  
2½" from wall to center of rail

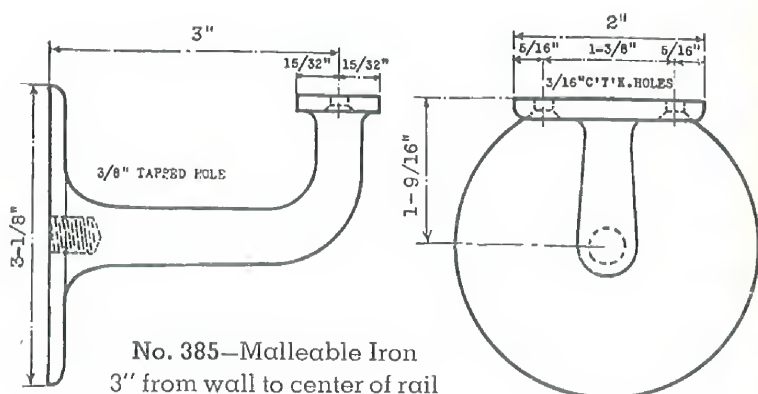


No. 377—Malleable Iron  
2½" from wall to center of rail

## HANDRAIL WALL BRACKET FILLER



No. 372—Cast Iron  
Set in plaster wall before mounting  
Handrail Bracket



No. 385—Malleable Iron  
3" from wall to center of rail

Handrail Brackets shown here have Flat Top member for use with handrail moulding or flat handrail. All styles are also carried in stock with Curved Top member for Pipe Handrails. For details, see page 60.

All Handrail Brackets are furnished with screw holes for fastening to wall and to handrail.

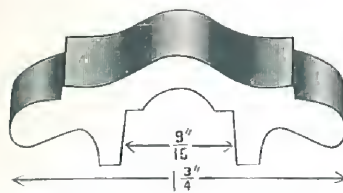
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# ROLLED STEEL HANDRAIL No. 4437

33

New Design For Easier Welded Railing Assembly



No. 4437 1.50 lb.

Handrail No. 4437 is intended for low cost railings, where balusters are welded directly to the top rail. The opening on the underside fits  $\frac{1}{2}$ " square balusters. The legs on the underside serve to stiffen the moulding to prevent sagging. The top surface is identical to our moulding No. 4429.

No. 4437 may be used with a  $1\frac{1}{4}$ " channel or without channel.

For rolled steel handrails with a complete range of matched fittings, see page 30.



No. 4437 with balusters welded to handrail



No. 4437 with  $1\frac{1}{4}$ " x  $\frac{1}{2}$ " channel



CENTER URN BASE

Fits Handrails Nos. 4429 and 4437

## MOULDED LATERAL SCROLLS for Handrail No. 4437



Left Hand

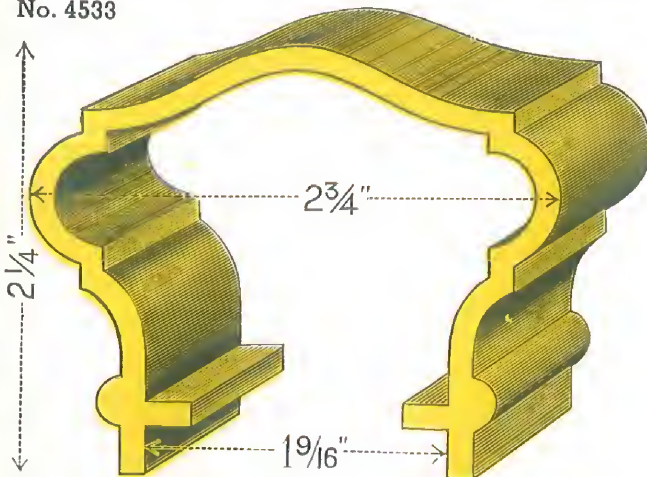
Match accurately the profile of the handrail. Made of malleable iron, they may be bent to conform to required bevel and welded to the end of the handrail.



Right Hand

## ARCHITECTURAL BRONZE HANDRAILS

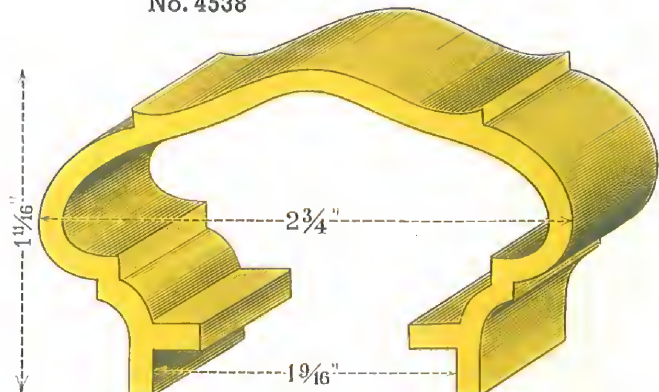
No. 4533



3.37 lb.

Fittings are NOT furnished for handrails on this page. For handrails with matched fittings, see page 35.

No. 4538



2.75 lb.

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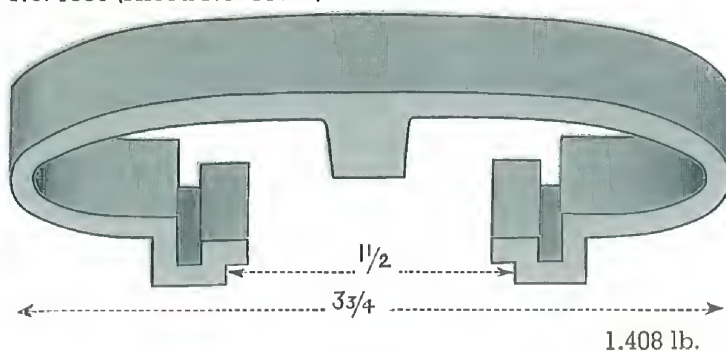


# ARCHITECTURAL ALUMINUM HANDRAILS

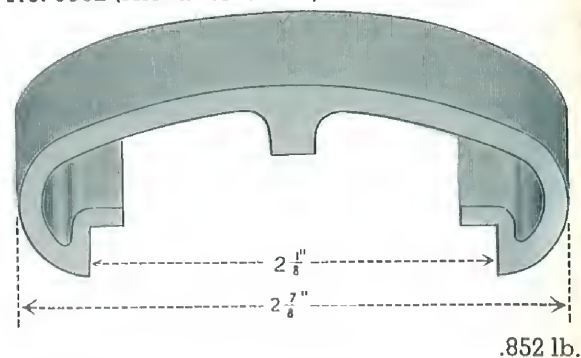
Alloy 6063 (63-S) Suitable for Alumiliting

Fittings are NOT furnished for Handrails on this page. For Handrails with matched fittings, see page 35.

No. 6983 (Alcoa No. 16816)

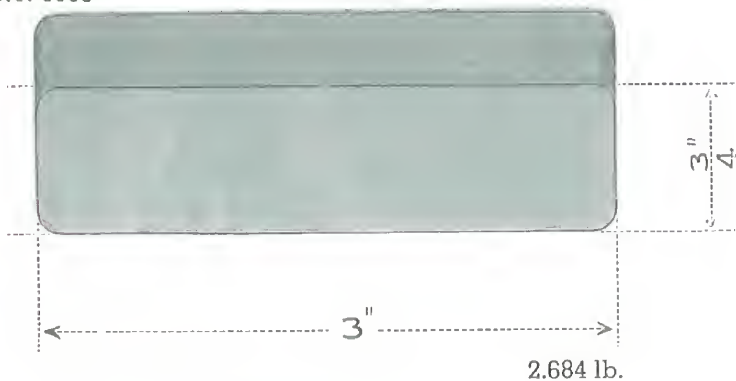


No. 6932 (Alcoa No. 16505)

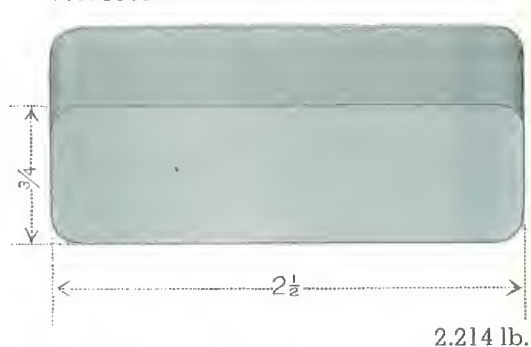


Alcoa Terminal End 16505-E carried in stock

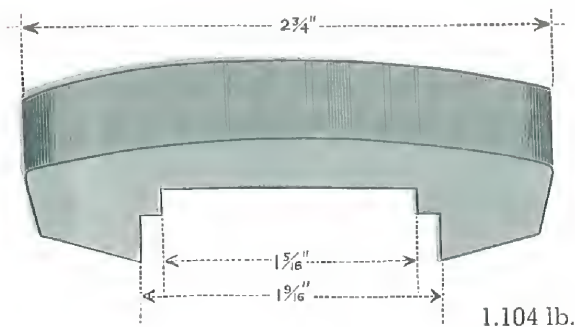
No. 6986



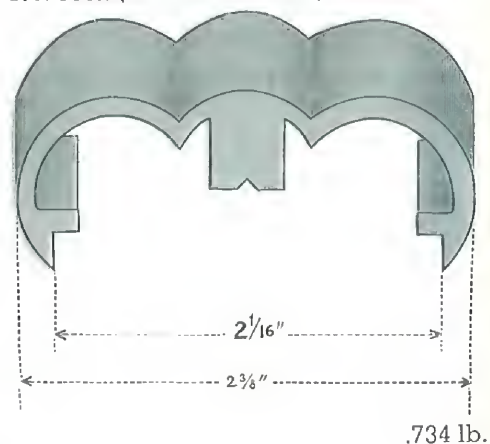
No. 6939



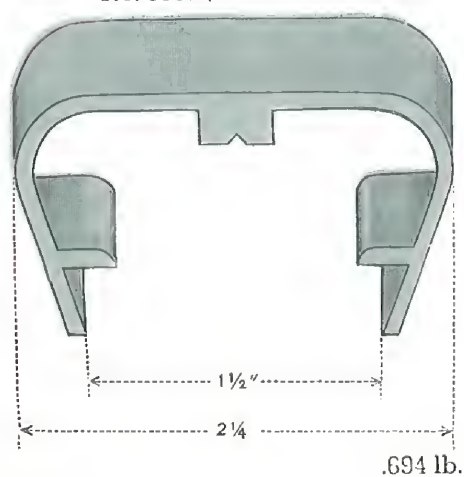
No. 6984



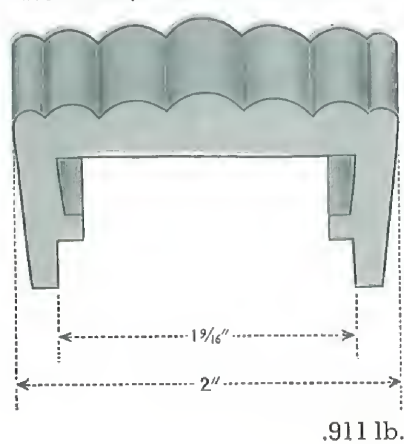
No. 6982 (Alcoa No. 23680)



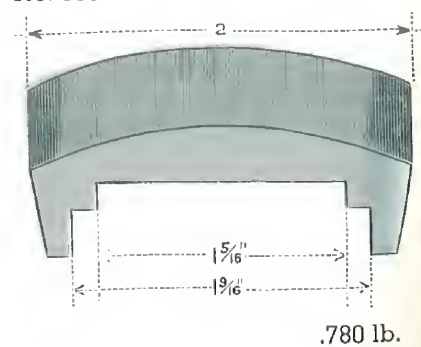
No. 6981 (Alcoa No. 25300)



No. 6980 (Alcoa No. 12729)



No. 6985



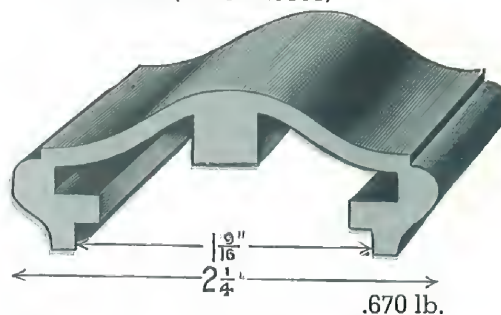
Polished Handrail Fittings are carried in stock to match the profiles of these Handrails. All Aluminum and Bronze Handrails are supplied in soft temper to facilitate bending. See page 36.

## ARCHITECTURAL ALUMINUM

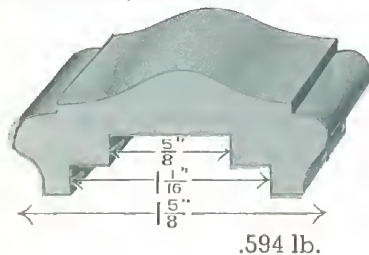
Alloy 6063 (63-S) suitable for Alumiliting

Handrails No. 6931, 6934 and 6930 below are especially suited for bending. Handrail No. 6929 at right has an outside profile identical to No. 6930. It is more economical for use on straight runs where bending is not required.

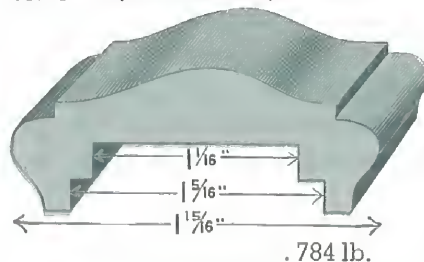
No. 6929 (Alcoa 23681)



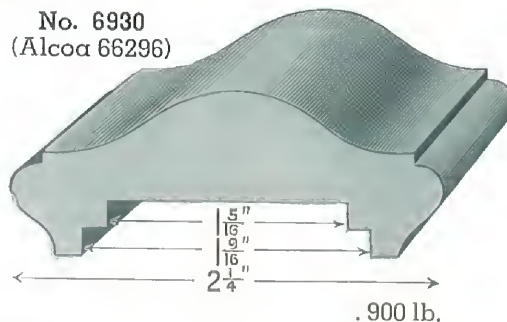
No. 6931 (Alcoa 66294)



No. 6934 (Alcoa 66295)

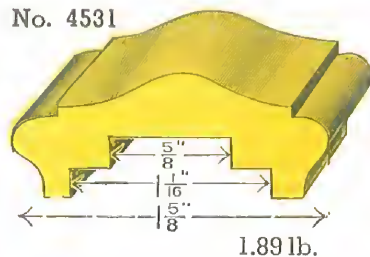


No. 6930 (Alcoa 66296)

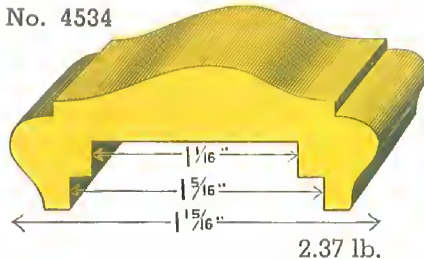


## ARCHITECTURAL BRONZE

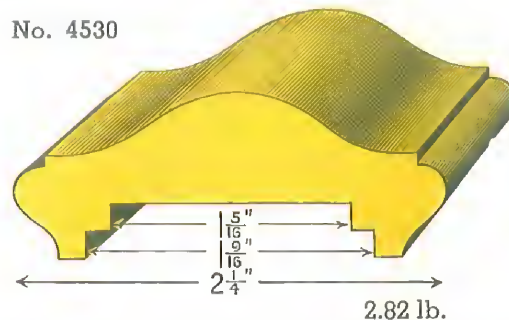
No. 4531



No. 4534

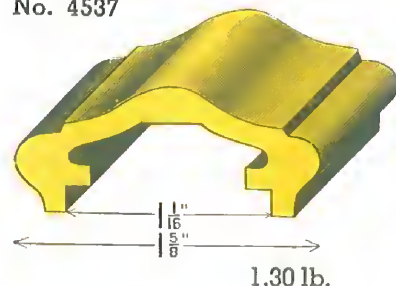


No. 4530

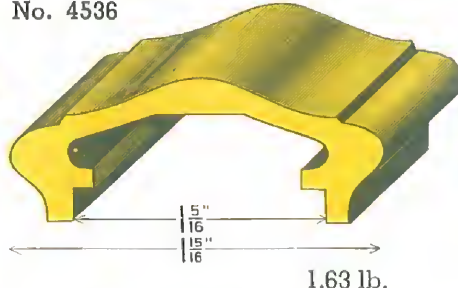


Handrails No. 4531, 4534 and 4530 above are especially suited for bending. Handrails No. 4537, 4536 and 4532 below have outside profiles identical to the corresponding heavier sections above. They are more economical for use in straight runs where bending is not required.

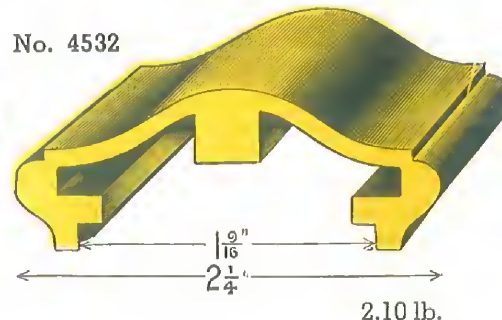
No. 4537



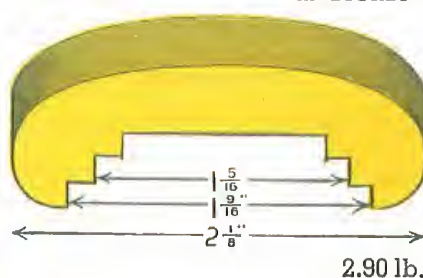
No. 4536



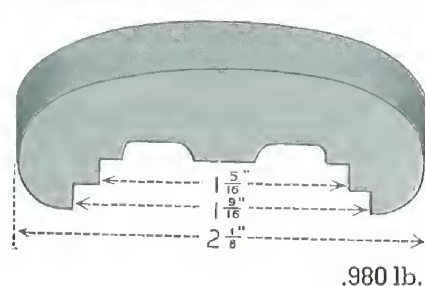
No. 4532



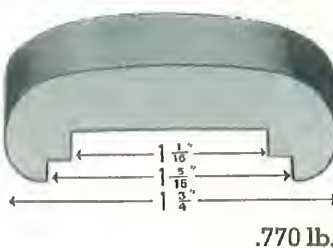
No. 4535 Architectural Bronze



No. 6935 Architectural Aluminum



No. 6933 (Alcoa 20609) Architectural Aluminum





# HANDRAIL FITTINGS

To Match Bronze and Aluminum Handrails  
Shown on Page 35  
SATIN FINISH



STRAIGHT  
LAMB'S  
TONGUE



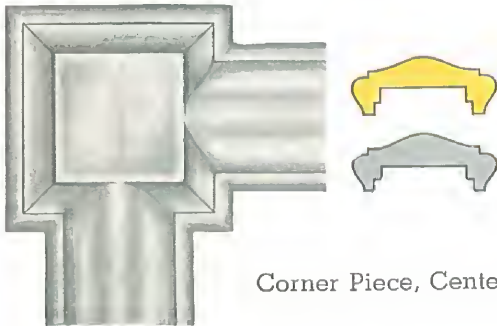
VOLUTE



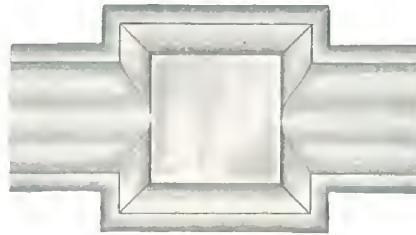
BEVEL  
LAMB'S  
TONGUE

For Handrail Wall Brackets, see page 37

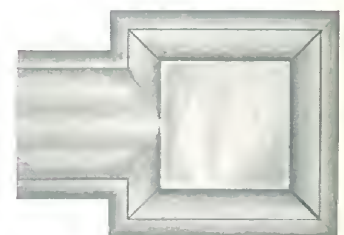
CORNER PIECE "L"



CENTER PIECE "T"



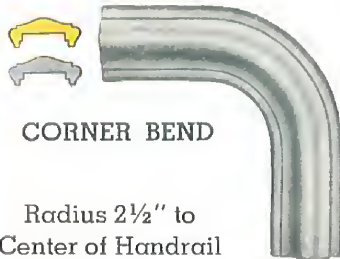
TERMINAL



Corner Piece, Center Piece and Terminal are NOT furnished for Aluminum Handrail No. 6933

## LATERAL SCROLLS

Full size details furnished upon request.



CORNER BEND

Radius 2½" to  
Center of Handrail

For Steel Channel  
and Flat Bar Scrolls  
to fit underside of  
Bronze and Alumi-  
num Lateral Scrolls,  
see page 31.



Left Hand



Right Hand

Handrail Fittings are carried in stock with satin finish.

They match the color and profile of Handrails shown on adjoining page.

Aluminum Fittings are made of Alloy 214, for use with Extruded Alloy 6063. They are suitable for Alumilting.

**WHEN ORDERING, STATE NUMBER OF HANDRAIL AND TYPE OF FITTING**

A COMPLETE RANGE OF ALUMINUM AND BRONZE BARS AND SHAPES  
CARRIED IN STOCK



SQUARES



FLATS



ROUNDS



CHANNELS



ANGLES



TEES



SQUARE AND RECTANGULAR  
TUBING



PIPE

For a Listing of Stock sizes, see pages 10, 11, and 12.

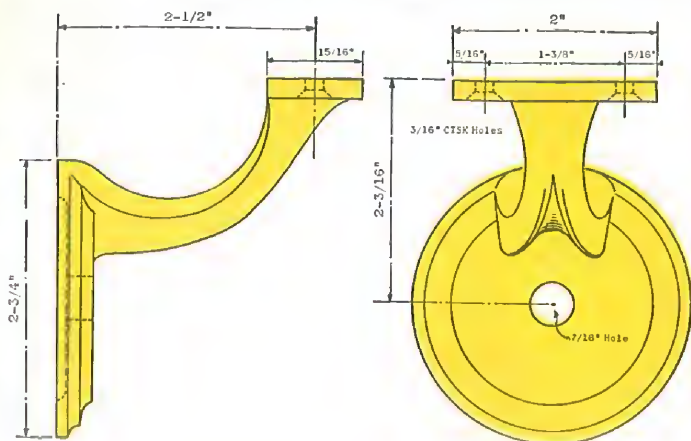
ALL Aluminum Items are Alloy 6063. ALL Bronze Items are Extruded Architectural Bronze.  
NO CHANCE OF ACCIDENTAL MISMATCHING OF ALLOYS OR COLORS

# ALUMINUM AND BRONZE HANDRAIL BRACKETS

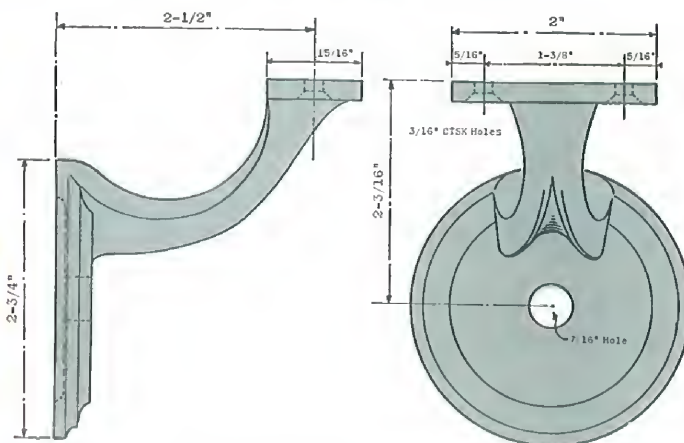
37

For Handrail Moulding or Flat Handrail

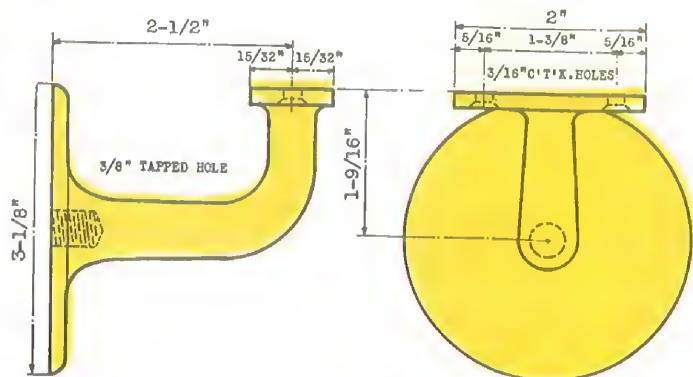
Also carried in stock with curved top member for pipe handrails. See pages 61, 62, 63.



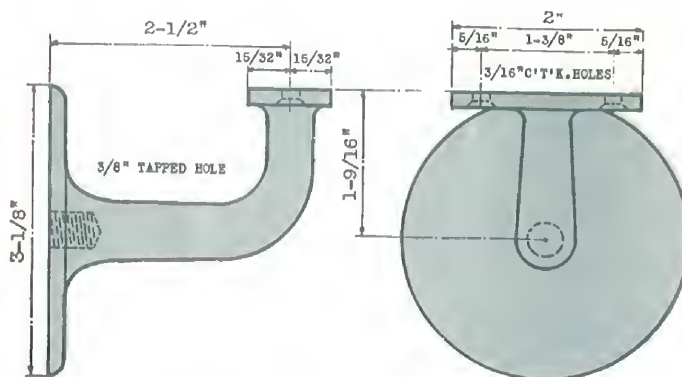
No. 387—Bronze, Satin Finish



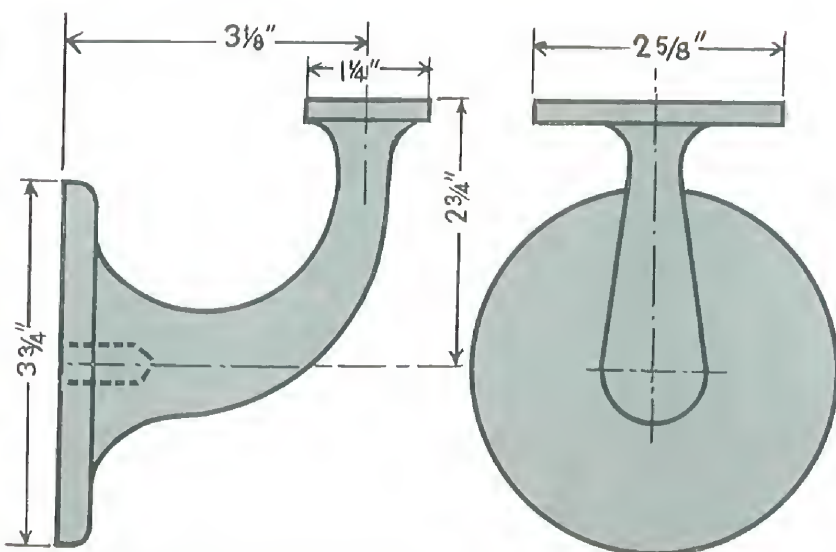
No. 383—Aluminum, Satin Finish



No. 370—Bronze, Satin Finish

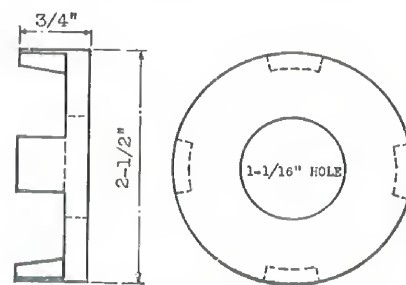


No. 371—Aluminum, Satin Finish



Alcoa No. 303-B—Aluminum, Unpolished For Handrails Over 2 1/4" wide.

## WALL BRACKET FILLER



No. 372—Cast Iron

Aluminum Handrail Brackets are made of alloy 214, for use with extruded Alloy 6063. They are suitable for aluminizing. Bronze Handrail Brackets match the color of Architectural Bronze Handrails.

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SADDLES—NOSINGS

MOULDINGS—FUNCTIONAL SHAPE

ORNAMENTS—HARDWARE

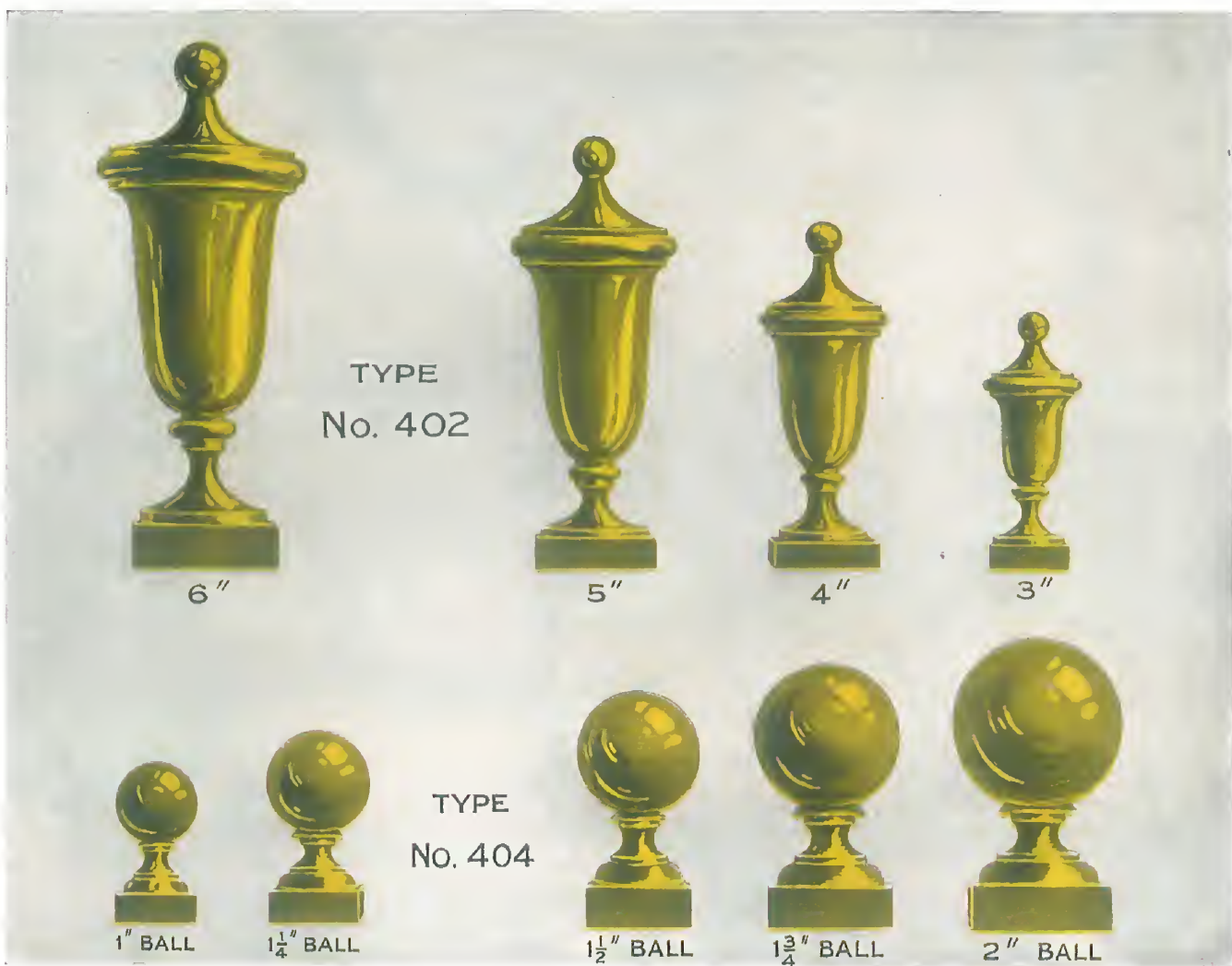
MACHINE



# POLISHED BRONZE URNS AND BALL FINIALS

Carried in stock with Round or Square Base. — Base has  $\frac{3}{8}$ " Tapped Hole

Machined from solid stock — Free from imperfections — No Breakage



## DIMENSIONS

No. 402 — Bronze			No. 404 — Bronze			
Height	Sq. Base	Rd. Base	Dia. Ball	Height	Sq. Base	Rd. Base
3"	1"	1"	1"	1 3/4"	1"	7/8"
4"	1 1/4"	1 1/4"	1 1/4"	2 3/8"	1 1/8"	1 1/8"
5"	1 1/2"	1 1/2"	1 1/2"	2 3/4"	1 1/4"	1 1/4"
6"	1 3/4"	Not furnished	1 3/4"	3 1/8"	1 1/2"	1 1/2"
			2"	3 1/2"	1 3/4"	1 3/4"

*Illustrations are about one half actual size*

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Carried in Stock with Round and Square Base

BASE HAS  $\frac{3}{8}$ " TAPPED HOLE

## POLISHED BRONZE



No. 406



No. 405



No. 407



No. 403

	No. 405	No. 406	No. 407	No. 403-3"	No. 403-4"
Height	3½"	4"	3"	3"	4"
Round Base	7/8"	1½"	7/8"	1"	1½"
Square Base	1"	1¼"	1"	1"	1½"

Square bases of Urns No. 405 and No. 407 are unattached and fit over round base. All other finials are in one piece.

## POLISHED ALUMINUM



No. 432-4" high



No. 432-3" high



No. 437-Round base only



No. 434-1¼" ball



No. 434-1½" ball

DIMENSIONS ARE THE SAME AS BRONZE FINIALS OF CORRESPONDING SIZES

## UNPOLISHED URNS

ATTRACTIVE AND LOW IN COST



No. 1406-Bronze



No. 1405-Bronze



No. 1407-Bronze



No. 1437-Aluminum Round base only

DIMENSIONS ARE THE SAME AS POLISHED URNS OF CORRESPONDING SIZES.

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SADDLES—NOSINGS

MOULDINGS—FUNCTIONAL SHAPE

ORNAMENTS—HARDWARE

MACHINE



# URNS AND BALL FINIALS

MALLEABLE IRON

Clean Appearance — No Breakage — Base has  $\frac{3}{8}$ " Tapped Hole



6"



5"



4"



3"

TYPE  
No. 452



1" BALL



1 1/4" BALL

TYPE  
No. 454



1 1/2" BALL



1 3/4" BALL



2" BALL

Illustrations are one half actual size.

## DIMENSIONS

No. 452—Malleable Iron			No. 454—Malleable Iron		
Height	Rd. Base	Sq. Base	Dia. Ball	Height	Rd. Base Sq. Base
3"	1"	1"	1"	1 3/4"	7/8"
4"	—	1 1/4"	1 1/4"	2 3/8"	1 1/8"
5"	—	1 1/2"	1 1/2"	2 3/4"	1 1/4"
6"	—	1 3/4"	1 3/4"	3"	1 1/2"
			2"	3 3/8"	1 3/4"

\*No. 452 Urn 3" high with round base } These are turned steel and  
No. 454 Finial 1" ball with round base } have a smooth bright finish.

All other sizes are made of high grade malleable iron.

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# ORNAMENTAL BALUSTER COLLARS

Unbreakable Malleable Iron

Illustrations are shown  
about one half actual size



No. 546 — ½" Sq. Hole  
No. 547 — ⅝" Sq. Hole  
Height — 7¾"  
Width — 3"



No. 544 — ½" Sq. Hole  
No. 545 — ⅝" Sq. Hole  
Height — 4¾"  
Width — 3"

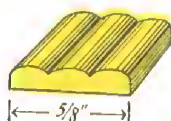


No.	Hole	Height	Width
543	½" sq.	4¾"	4⅝"
535	⅝" sq.	3¾"	3½"

ORNAMENTAL BALUSTER COLLARS ARE INEXPENSIVE AND  
HIGHLY DECORATIVE. USED SINGLY OR IN COMBINATIONS.

EASILY APPLIED, CAN BE FASTENED BY SCREW, TACK WELD OR CALKING  
MALLEABLE IRON — NO BREAKAGE

No. 6108

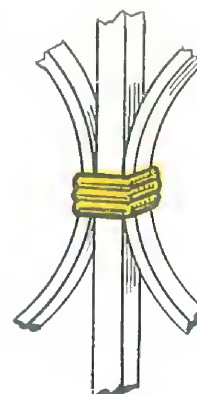


.263 lb.

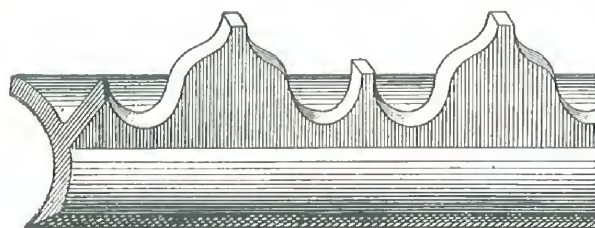
## BRONZE TIE BAND STRIP

Bronze Tie Bands used with wrought iron scroll work improve  
the appearance of railings, grilles, gates, etc.  
Section No. 6108 is made of a special alloy, easy to bend.

Detail showing the use  
of Bronze Tie Band Strip  
No. 6108.



## ROLLED STEEL LOAFERS RAIL



Detail of Rolled Steel  
"LOAFERS" RAIL  
applied to round pipe.



Carried in stock in 20 ft. lengths. Will fit over pipe or on flat  
surfaces. Affords effective protection against lounging on  
fences, railings, store fronts, etc. STRONGER AND BETTER  
IN APPEARANCE THAN CAST IRON.

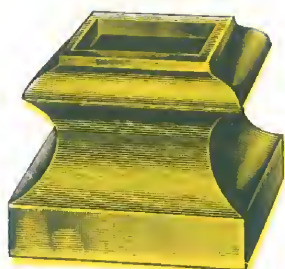
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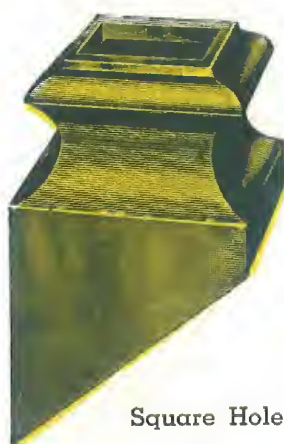
## COLLARS-BASES-FLANGES

BRONZE - SATIN FINISH



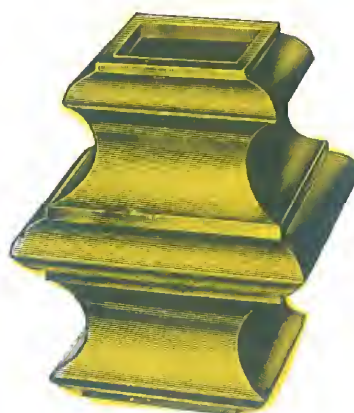
Square Hole

No.	Hole	Base
252	1/2"	1 1/4"
253	5/8"	1 1/4"
254	3/4"	1 3/8"
267	1"	1 3/4"
268	1 1/4"	2 3/4"
269	1 1/2"	3"



Square Hole

No.	Hole	Base
262	1/2"	1 1/4"
263	5/8"	1 1/4"
264	3/4"	1 3/8"



Square Hole

No. 265	1/2" Hole
No. 266	5/8" Hole



Round Hole

No.	Hole	Base
259	3/8"	1 1/4"
260	1/2"	1 1/4"
261	5/8"	1 3/8"

## ALUMINUM - Satin Finish



Square Hole

No.	Hole	Base
752	1/2"	1 1/4"
753	5/8"	1 1/4"
754	3/4"	1 3/8"
767	1"	1 3/4"
768	1 1/4"	2 3/4"
769	1 1/2"	3"



Square Hole

No. 765	1/2" Hole
No. 766	5/8" Hole

BRONZE  
Satin Finish

Round Hole

No.	Hole	Base
255	3/8"	1 1/4"
256	1/2"	1 1/4"
257	5/8"	1 3/8"
249	1"	2 1/2"

BRASS  
Unpolished

Round Base

No. 80	1/2" Round Hole
--------	-----------------

SQUARE FLANGES  
CAST IRON

For channels, bars or tubing

## SQUARE TUBE SOCKETS-CAST IRON



Square Hole	Base	Height
1"	3"	1 3/8"
1 1/4"	3 1/4"	1 1/2"
1 1/2"	3 1/2"	1 3/4"
2"	4"	1 3/4"
2 1/2"	4 1/2"	1 7/8"
3"	5 3/16"	2 3/8"



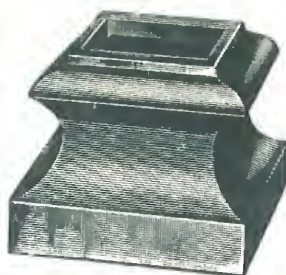
No. 615	3/4" Square Hole
No. 616	1" Square Hole

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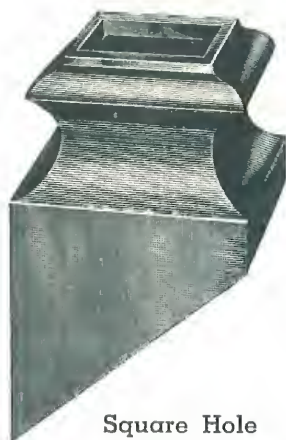


## CAST IRON



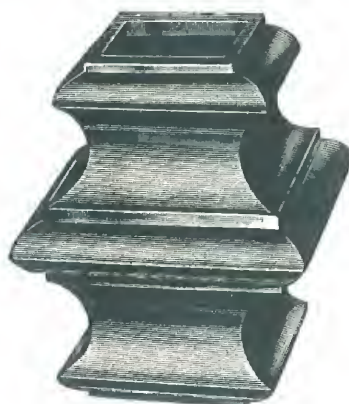
Square Hole

No.	Hole	Base
352	1/2"	1 1/4"
353	5/8"	1 1/4"
354	3/4"	1 3/8"
367	1"	1 3/4"
368	1 1/4"	2 3/4"
369	1 1/2"	3"



Square Hole

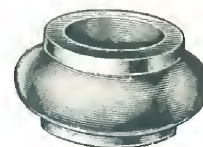
No.	Hole	Base
362	1/2"	1 1/4"
363	5/8"	1 1/4"
364	3/4"	1 3/8"



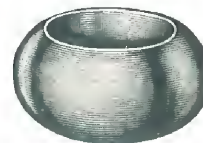
Square Hole

No. 365	1/2" Hole
No. 366	5/8" Hole
No. 348	3/4" Hole

## STEEL

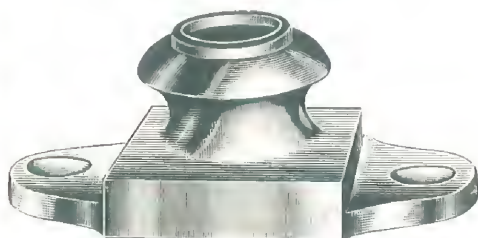


Round Collar  
No. 72 1/2" Round Hole

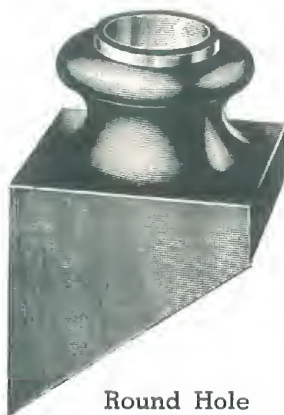


Round Collar  
No. 73 3/8" Round Hole  
No. 74 5/8" Round Hole

## MALLEABLE IRON



No. 395 3/8" Round Hole  
No. 396 1/2" Round Hole  
No. 397 5/8" Round Hole



Round Hole

No.	Hole	Base
359	3/8"	1 1/4"
360	1/2"	1 1/4"
361	5/8"	1 3/8"

## CAST IRON

Round Hole

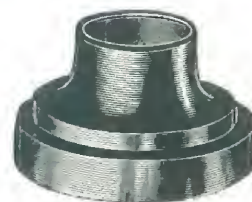
No.	Hole	Base
355	3/8"	1 1/4"
356	1/2"	1 1/4"
357	5/8"	1 3/8"
349	1"	2 1/2"



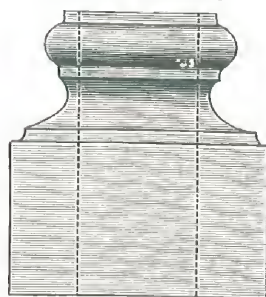
## STEEL →

Round Base

No. 75	3/8" Round Hole
No. 77	1/2" Round Hole

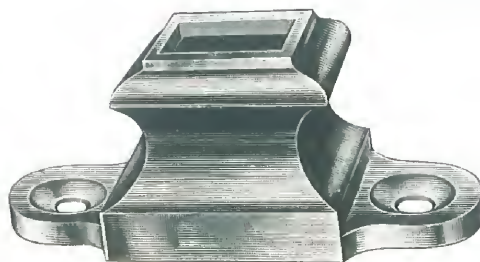


## CAST IRON

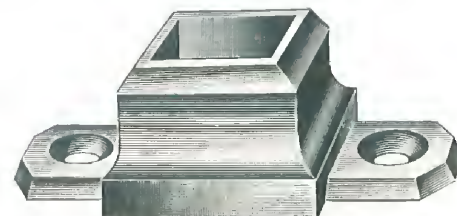


No. 345 1/2" Square Hole  
No. 346 5/8" Square Hole  
No. 347 3/4" Square Hole

## MALLEABLE IRON



No. 390 1/2" Square Hole  
No. 391 5/8" Square Hole  
No. 393 1" Square Hole



No. 350 1/2" Square Hole  
No. 351 5/8" Square Hole  
No. 398 3/4" Square Hole  
No. 399 1" Square Hole



# FORGED STARTING POSTS & BALUSTER BARS

LENGTH: 3'-0"

SCALE: 3" = 1'-0"

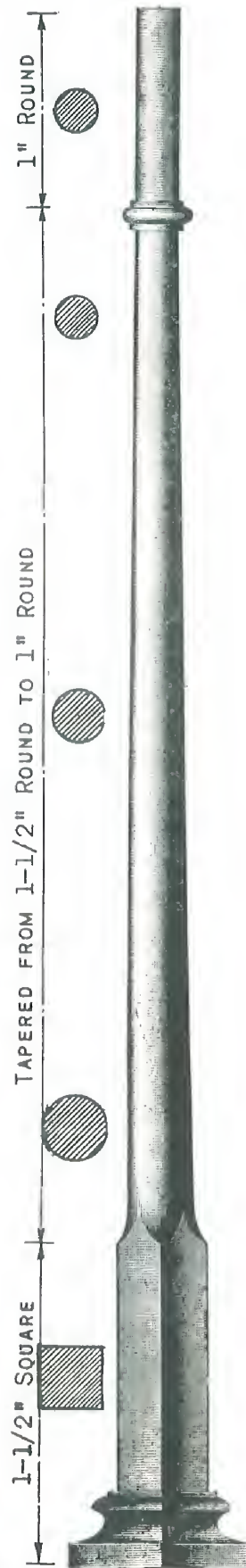


No. 332

BASES SHOWN ARE NOT INCLUDED. CAN BE FURNISHED IN  
CAST IRON, POLISHED BRONZE OR ALUMINUM

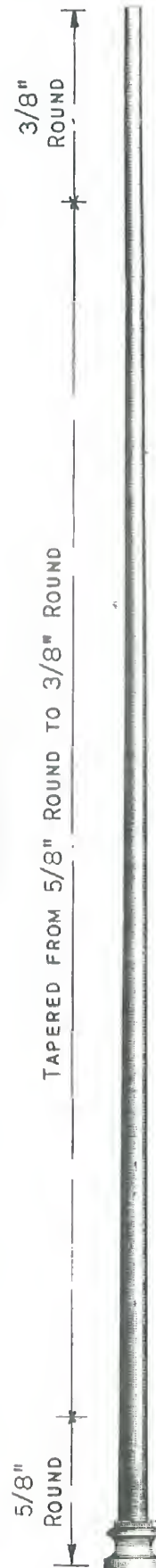


No. 343



No. 331

LENGTH... 3'-0"



No. 329



No. 330

# ORNAMENTAL STARTING POSTS

SCALE 3" = 1'-0"

These Posts are designed to allow for adjustment to varying railing heights. They may be made shorter without interference with the ornamentation.

## DIMENSIONS

	Length	Lower End	Upper End
No. 333	3'-0"	1½" Sq.	⅞" Rd.
No. 334	3'-0"	1" Rd.	1" Rd.
No. 335	3'-0"	1¼" Sq.	1¼" Sq.

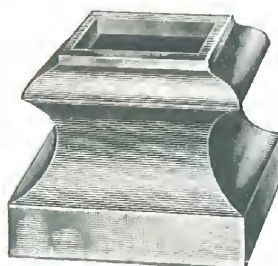
## Base Collars for Starting Posts

### ROUND HOLE



No. 349 Cast Iron } 1" Hole—2½" sq. base  
No. 249 Polished Bronze } Fits Post No. 334

### SQUARE HOLE



No. 368 Cast Iron } 1¼" Hole—2¾" sq. base  
No. 268 Polished Bronze } Fits Posts  
No. 768 Polished Aluminum } No. 335, 332 and 343

No. 369 Cast Iron } 1½" Hole—3" sq. base  
No. 269 Polished Bronze } Fits Posts No. 333 and 331  
No. 769 Polished Aluminum }

For other Collars and Bases, see pages 42 and 43



No. 333



No. 334

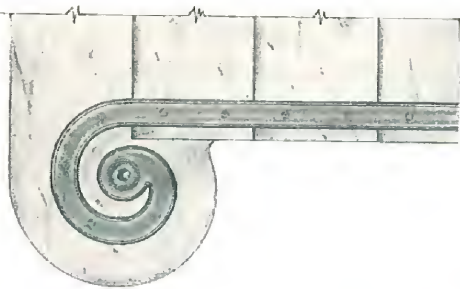


No. 335

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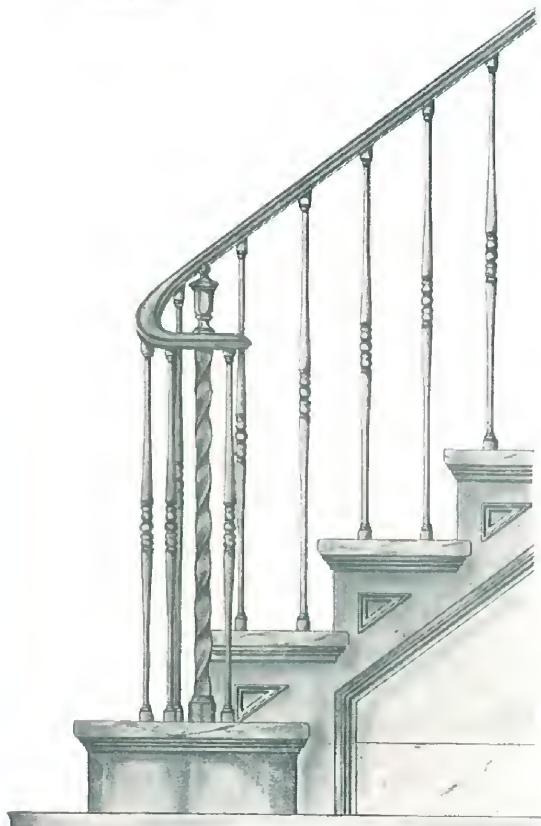
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## Hollow Tapered Steel Spindles

Length: 3'-0"



Detail of Railing showing application of Hollow tapered Steel Spindles. They may also be used for grilles, doors, window guards, etc., also for lamps and, cut in half, as chair and table legs.

On account of their EXTREMELY LOW COST, HOLLOW STEEL SPINDLES can be used for work where price is the determining factor.

For high class work, we recommend forged spindles and Balusters as shown on Pages 47, 48 and 49.

HOLLOW STEEL SPINDLES may be easily polished and plated. They are strong, but light in weight.



No. 300  
1 1/4" in center  
tapering to  
3/4" on ends



No. 310  
1" in center  
tapering to  
3/8" on ends



No. 320  
3/4" in center  
tapering to  
3/8" on ends

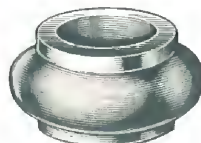
# FORGED SPINDLES

Spindles are hammer forged from solid stock.  
Length 36".

Collars shown near the ends of Forged Spindles are furnished loose for alignment to required position when spindles are used on stair treads.

## Collars and Bases for Forged Spindles Round Holes

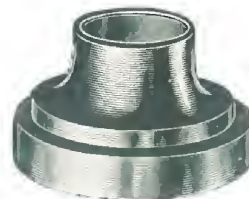
Turned Steel



No. 72— $\frac{1}{2}$ " hole

2 collars No. 72 included  
with each spindle No.  
325 or 327.

Base Collar



Turned Steel

No. 75  $\frac{3}{8}$ " hole  
No. 77  $\frac{1}{2}$ " hole



No. 73— $\frac{3}{8}$ " hole

No. 74— $\frac{5}{8}$ " hole

2 collars No. 73 included  
with each spindle No.  
326.

2 collars No. 74 included  
with each spindle No.  
328.

Bronze

No. 80  
 $\frac{1}{2}$ " hole

Bevel Base Collar



Base Collar



Bronze No.	Iron No.	Hole	Width
255	355	$\frac{3}{8}$ "	1 $\frac{1}{4}$ "
256	356	$\frac{1}{2}$ "	1 $\frac{1}{4}$ "
257	357	$\frac{5}{8}$ "	1 $\frac{3}{8}$ "

Bronze No.	Iron No.	Hole	Width
259	359	$\frac{3}{8}$ "	1 $\frac{1}{4}$ "
260	360	$\frac{1}{2}$ "	1 $\frac{1}{4}$ "
261	361	$\frac{5}{8}$ "	1 $\frac{3}{8}$ "

For complete listing of Collars and Bases, see pages 42 and 43.

No. 325  
 $\frac{1}{2}$ " round  
at ends



Shown with Two Collars No. 72

No. 326  
 $\frac{3}{8}$ " round  
at ends



Shown with Two Collars No. 73

No. 327  
 $\frac{1}{2}$ " round  
at ends



Shown with Two Collars No. 72

No. 328  
 $\frac{5}{8}$ " round  
at ends



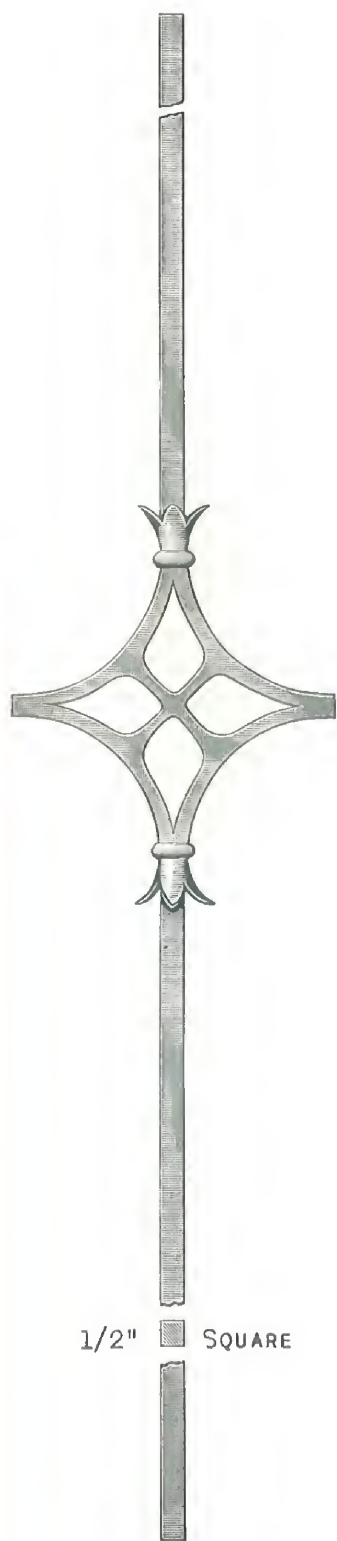
Shown with Two Collars No. 74

Spindles are shown ONE QUARTER actual size



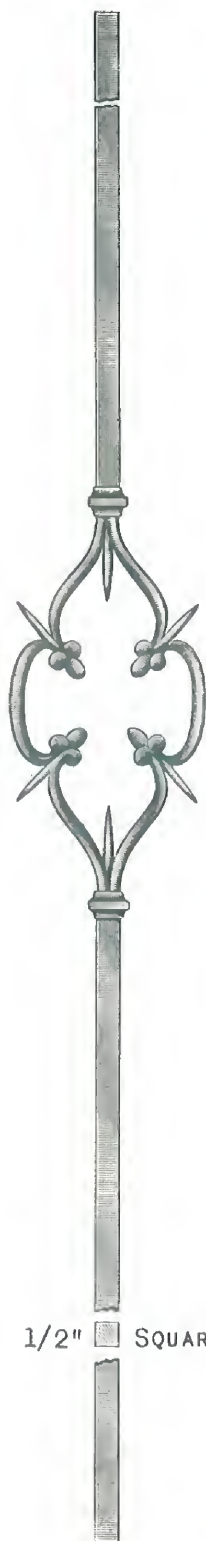
## ORNAMENTAL BALUSTER BARS

(SCALE: 3" = 1'-0")



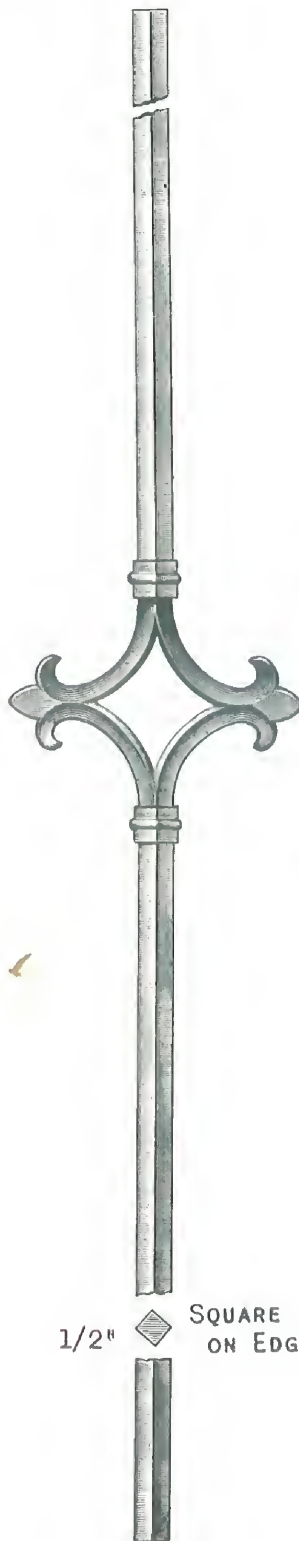
1/2" SQUARE

No. 528



1/2" SQUARE

No. 533



1/2" SQUARE ON EDGE

No. 534



5/8" ROUND

No. 532

3' 3" MINIMUM LENGTH OF BARS

Ornamental Baluster Bars are forged in one solid piece.  
 Bars can be welded, drilled and tapped, hammer marked, and twisted.

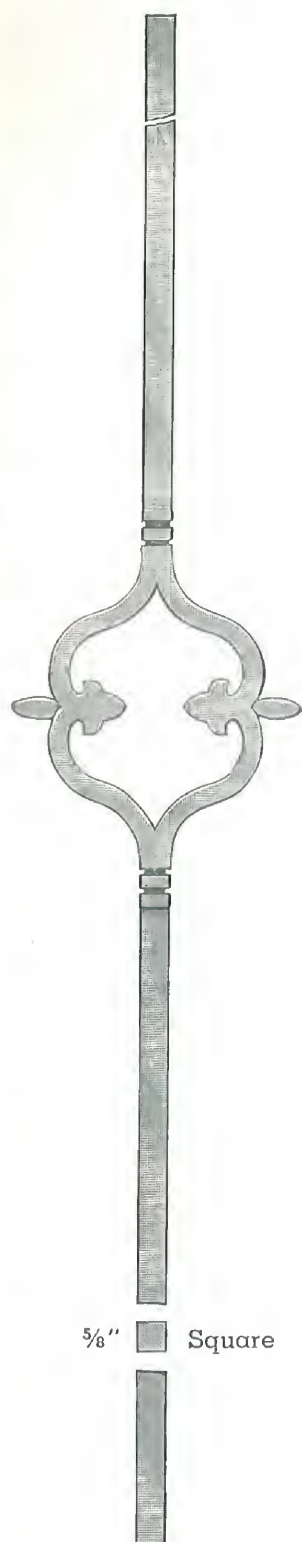
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# ORNAMENTAL BALUSTER BARS

(SCALE: 3" = 1'-0")

49



No. 530



No. 531



No. 529

3' 3" MINIMUM LENGTH OF BARS

Ornamental Baluster Bars are forged in one solid piece.  
Bars can be welded, drilled and tapped, hammer marked, and twisted.

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SADDLES—NOSINGS

MOULDINGS—FUNCTIONAL SHAPE.

ORNAMENTS—HARDWARE

MACHINE.



TYPICAL APPLICATIONS OF  
**ORNAMENTAL RAILING PANELS**  
 OF UNBREAKABLE MALLEABLE IRON



No. 560



No. 561



No. 567



No. 559



No. 560



No. 560



No. 565



No. 561



No. 559



No. 566



Two castings No. 565 forming one panel.

These illustrations are offered as suggestions only. Railing panel castings can be used in many other ways.



Two castings No. 565 forming one panel.

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# ORNAMENTAL RAILING PANELS

51

of Unbreakable Malleable Iron

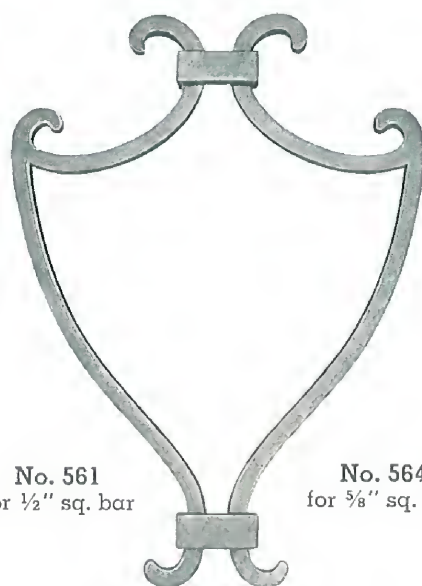
Scale 3" = 1'-0"

Highly Decorative

Low in Cost



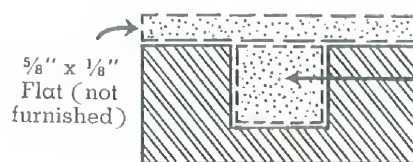
No. 559  
for 1/2" sq. bar  
Height 15" - Width 7"



No. 561  
for 1/2" sq. bar

No. 564  
for 5/8" sq. bar

Height 12" - Width 8 1/2"



5/8" x 1/4"  
Flat (not  
furnished)

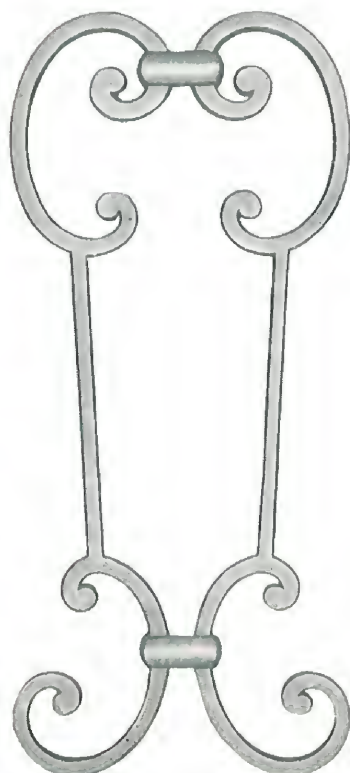
Collars  
fit 1/2" and  
5/8" square  
balusters

Typical Section thru Collars  
Collars are open on one side for  
easy installation. May be left open  
or closed with a flat as shown.



No. 560  
for 1/2" sq. bar  
Height 16" - Width 8 1/2"

No. 563  
for 5/8" sq. bar



No. 566  
for 1/2" sq. bar  
Height 16" - Width 7"



No. 565  
for 1/2" sq. bar  
Height 15" - Width 8 1/2"



No. 567  
for 1/2" sq. bar  
Height 16" - Width 8 1/2"

SADDLES—NOSINGS

MOULDINGS—FUNCTIONAL SHAPE.

ORNAMENTS—HARDWARE

MACHINE.

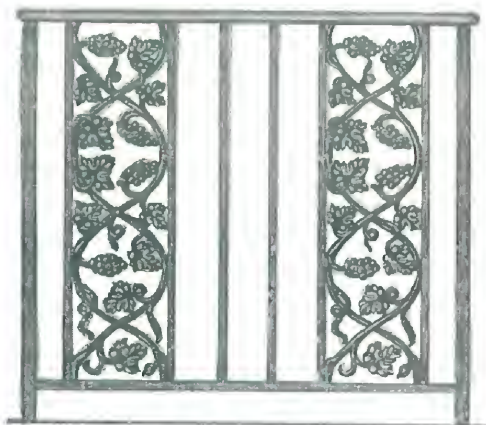


## RAILINGS CONSTRUCTED WITH STOCK PANELS

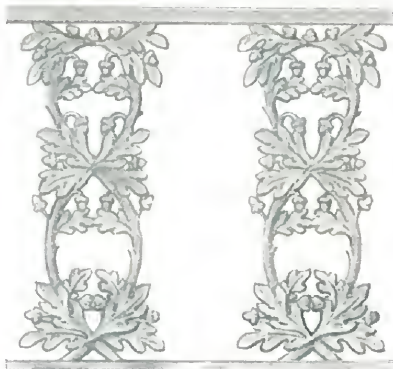


End Panels: Casting No. 520—Center Panel: Castings No. 520 and No. 521—Balusters: No. 532

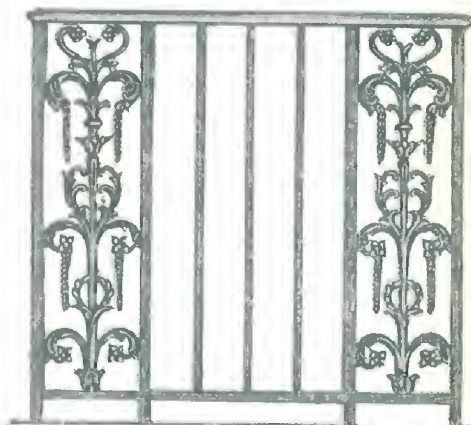
Suggested designs showing  
the use of our  
stock elements.



Panels: Casting No. 511

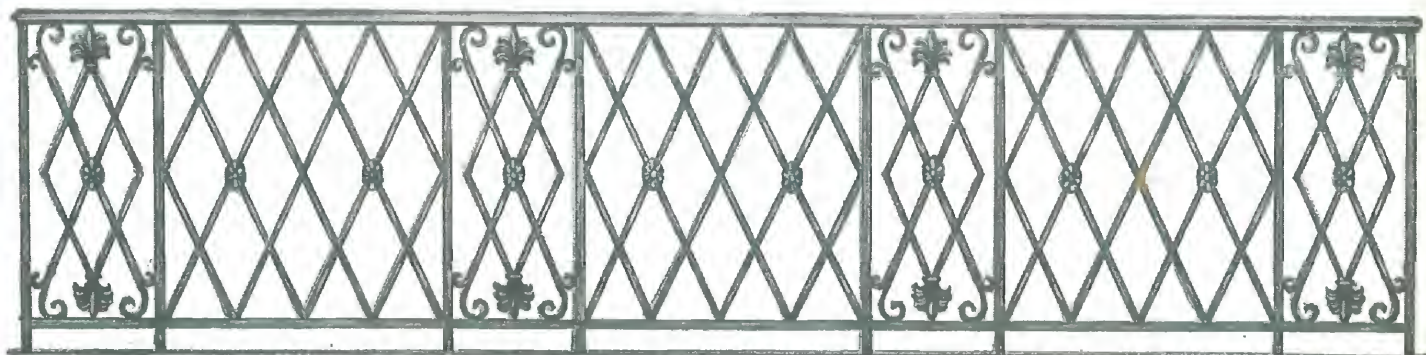


Panels: Casting No. 558



Panels: Casting No. 517

We furnish materials only and  
do not fabricate or assem-  
ble complete railings.



Panels: Castings No. 540 and No. 541

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# ORNAMENTAL DOUBLE FACED CASTINGS

53

MALLEABLE IRON - NO BREAKAGE

SCALE 1" = 1'-0"



**No. 538**  
Height Overall—33"  
Height, Scroll only—29"  
Width—9 1/4"  
Cross Section—  
Scroll—5/8" x 7/16"  
Ends—1/2" x 1/2"



**No. 558**  
Height—28"  
Width—11 1/2"



**No. 539**  
Height Overall—34"  
Height, Scroll only—26 1/2"  
Width—8 1/2"  
Cross Section—  
Scroll—5/8" x 7/16"  
Ends—1/2" x 1/2"



**No. 518**  
Height—35 1/2"  
Width—7 5/8"



**No. 517**  
Height—34 1/2"  
Width—7 5/8"



**No. 537**  
Height Overall—37"  
Height, Scroll only—28"  
Width—8 1/4"  
Cross Section—  
Scroll—1/2" x 5/16"  
Ends—1/2" x 1/2"

Ornamental Double Faced Castings are clean in appearance. Malleable Iron Castings can be bent, hammer marked, welded or brazed. For additional Ornamental Castings, see "Treillage" Section.

For approximate weights of castings, see page 13.



**No. 519**  
Height—32"  
Width—7 5/8"



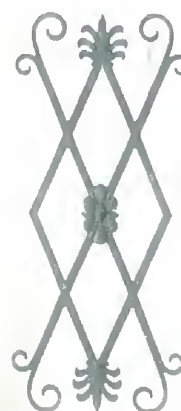
**No. 540**  
Height—24"  
Width—10 5/8"  
Cross Section—5/8" x 1/2"



**No. 521**  
Height—24 7/8"  
Width—12"



**No. 520**  
Height—24 7/8"  
Width—6 7/16"



**No. 541**  
Height—24"  
Width—10 5/8"  
Cross Section—5/8" x 1/2"



**No. 511**  
Height—31"  
Width—8 1/4"

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SADDLES—NOSINGS

MOULDINGS—FUNCTIONAL SHAPE.

ORNAMENTS—HARDWARE

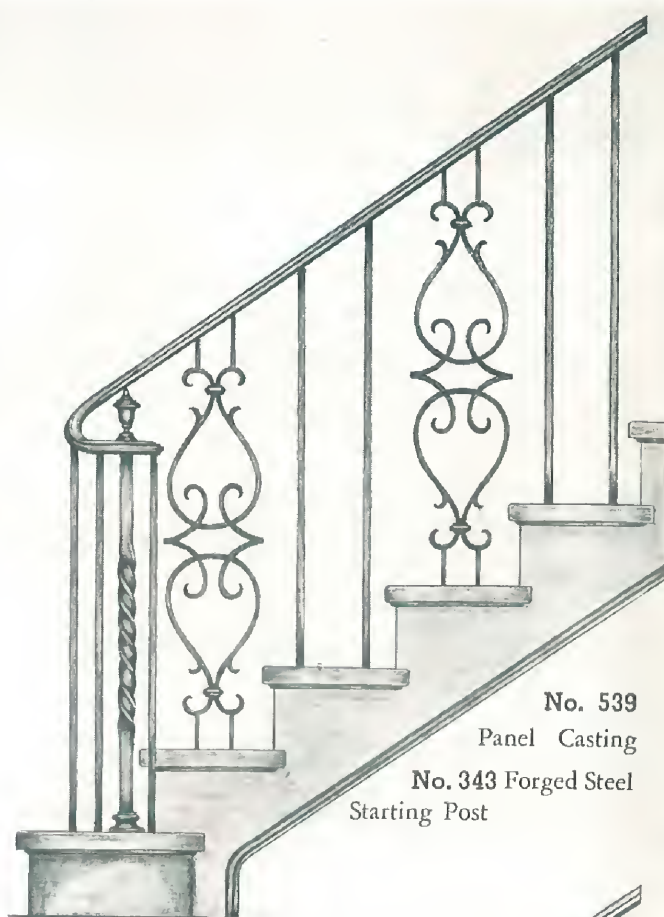
MACHINE.



# 54 STAIR RAILINGS CONSTRUCTED WITH ALUMINUM, BRONZE OR STEEL HANDRAILS AND FITTINGS, ORNAMENTAL BALUSTERS OR PANELS



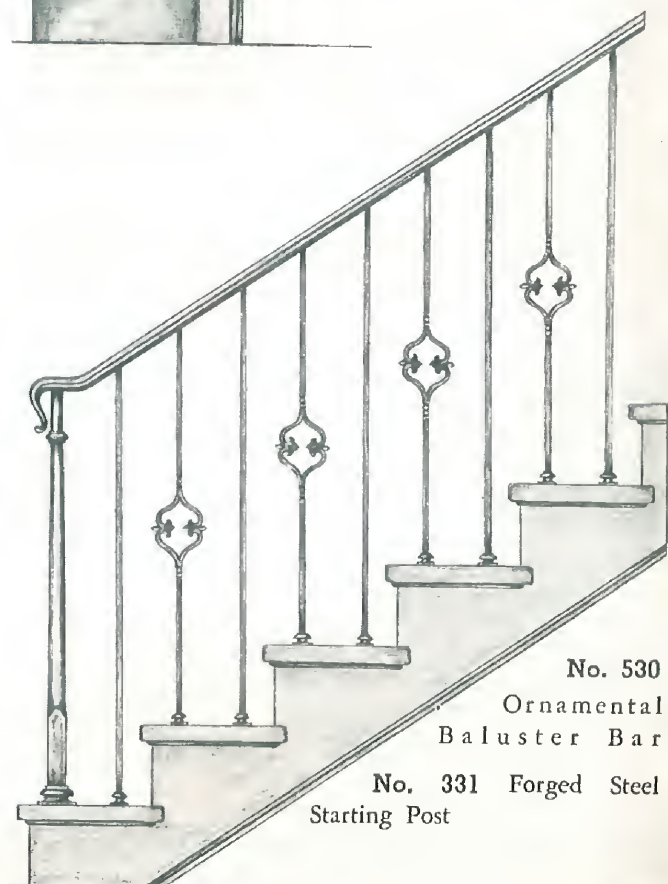
No. 325  
Forged Spindle  
No. 334 Cast Iron  
Starting Post



No. 539  
Panel Casting  
No. 343 Forged Steel  
Starting Post



No. 531  
Ornamental  
Baluster Bar  
No. 335 Cast Iron Start-  
ing Post



No. 530  
Ornamental  
Baluster Bar  
No. 331 Forged Steel  
Starting Post



# ORNAMENTAL DOUBLE FACED CASTINGS

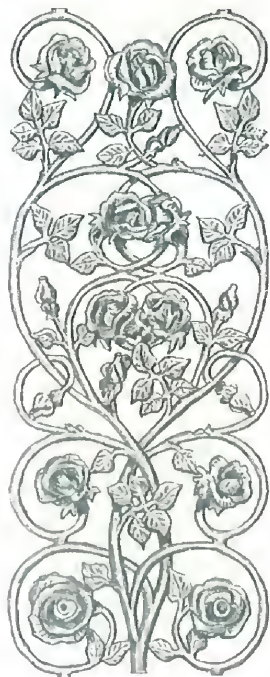
MALLEABLE IRON • NO BREAKAGE

SCALE 1½" = 1'-0"

55



No. 510  
Height: 28"  
Width: 8¼"



No. 571  
Height: 28"  
Width: 11"



No. 580  
Height: 28"  
Width: 9"

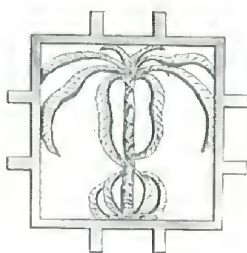


No. 576  
Height: 29"  
Width: 8"

Casting No. 570 can be attached to Square balusters in the same manner as panels on page 51.  
Castings Nos. 591 to 595 can be combined to produce interesting modern designs. See illustrations on Page 22.



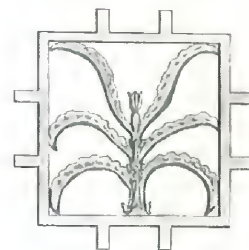
No. 584  
Height: 29"  
Width: 6½"



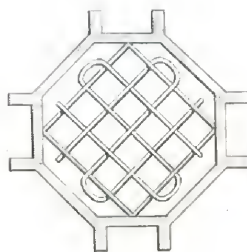
No. 591



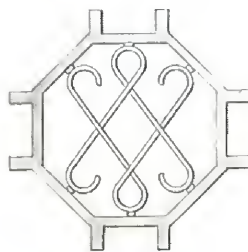
No. 592



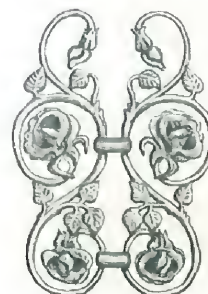
No. 595



No. 593



No. 594



No. 570  
Height: 12½"  
Width: 8½"  
Fits over ½" sq. bar.

Castings Nos. 591 to 595 have identical dimensions:  
Size, over all: 10" x 10", without legs: 8" x 8"  
Cross Section: Frame: ¾" x ⅝", Legs: ½" x ⅝"

SADDLES—NOSINGS

MOULDINGS—FUNCTIONAL SHAPE.

ORNAMENTS—HARDWARE

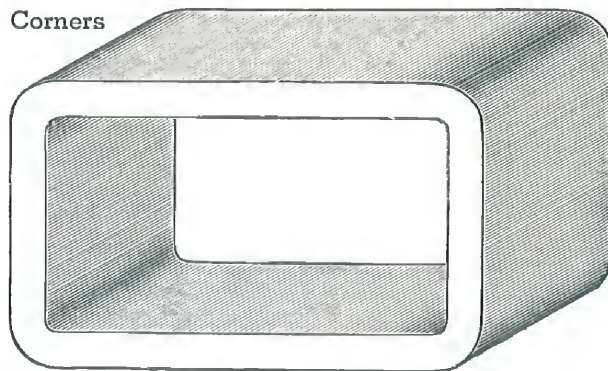
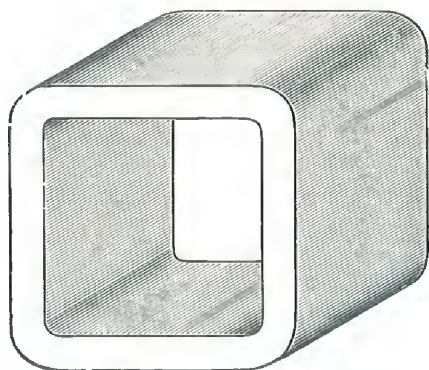
MACHINE.



# Heavy Wall Square and Rectangular Steel Tubing

Carried in Stock in Long Lengths Up to 22 Feet

Slightly Rounded Corners



## SQUARE

Weight  
per ft.

1"	x 1"	x .120"	1.436 lb.
1 1/4"	x 1 1/4"	x .120"	1.844
1 1/4"	x 1 1/4"	x .135"	2.200
1 1/4"	x 1 1/4"	x 3/16"	2.750
1 1/2"	x 1 1/2"	x .120"	2.252
1 1/2"	x 1 1/2"	x .140"	2.700
1 1/2"	x 1 1/2"	x 3/16"	3.050
2"	x 2"	x .120"	3.068
2"	x 2"	x .145"	3.700
2"	x 2"	x 3/16"	4.400
2"	x 2"	x 1/4"	5.600
2 1/2"	x 2 1/2"	x .120"	3.884
2 1/2"	x 2 1/2"	x 3/16"	5.600
2 1/2"	x 2 1/2"	x 1/4"	7.350
3"	x 3"	x 1/8"	4.887
3"	x 3"	x 3/16"	6.903
3"	x 3"	x 1/4"	8.940
3 1/2"	x 3 1/2"	x 1/8"	5.800
3 1/2"	x 3 1/2"	x 3/16"	8.129
4"	x 4"	x .134"	7.045
4"	x 4"	x 3/16"	9.350
4"	x 4"	x 1/4"	12.18

## OUTSIDE MEASUREMENTS

For other stock sizes of square and rectangular steel tubing, see page 6. Additional sizes can be furnished from mill.

## STRUCTURAL STEEL TUBING

A high strength — low cost tubing—suitable for porch columns and railing posts — considerably cheaper than solid bars.

## SQUARE

Weight  
per ft.

1"	x 1"	x .073"	92 lb.
----	------	---------	--------

## RECTANGULAR

Weight  
per ft.

2 1/2"	x 1 1/2"	x .120"	3.068 lb.
2 1/2"	x 1 1/2"	x .145"	3.750
2 1/2"	x 1 1/2"	x 3/16"	4.500
3"	x 1 1/2"	x 3/16"	5.272
3"	x 2"	x .120"	3.884
3"	x 2"	x 3/16"	5.911
4"	x 2"	x .120"	4.887
4"	x 2"	x 3/16"	6.903
4"	x 3"	x 1/8"	5.800
4"	x 3"	x 3/16"	8.129
5"	x 2 1/2"	x 3/16"	8.743
6"	x 3"	x 3/16"	10.57
6"	x 3"	x 1/4"	14.45
6"	x 4"	x 3/16"	11.81
6"	x 4"	x 1/4"	16.15
8"	x 3"	x 3/16"	13.04
8"	x 4"	x 3/16"	14.27

If galvanizing is required, we will gladly deliver tubing to local galvanizing plant.

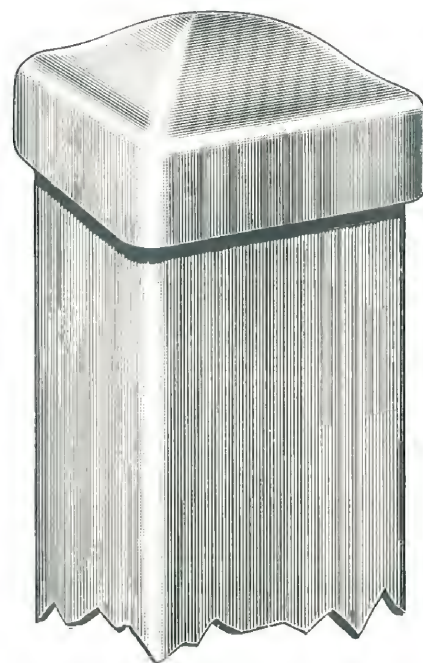
## SQUARE TUBE SOCKETS



Cast Iron Square Tube Sockets carried in stock for posts from 1" square to 3" square. For dimensions, see page 42.

## STEEL STAIR POSTS

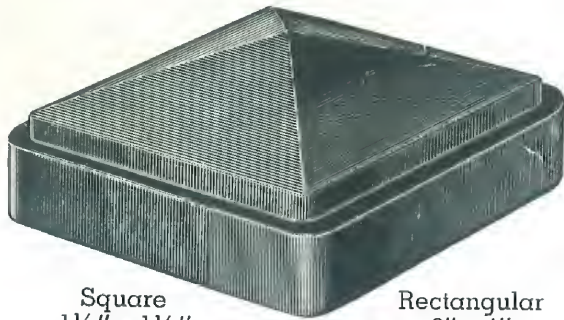
Tubular steel posts are light and strong, straight and true, easy to fabricate and install. Tubing listed here is sufficiently heavy for tap screws.



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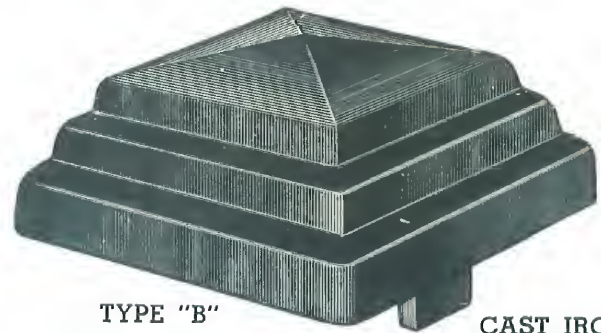
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**TYPE "A"**  
**CAST IRON**  
Square  
1½" x 1½"  
2" x 2"  
2½" x 2½"  
3" x 3"  
3½" x 3½"  
4" x 4"

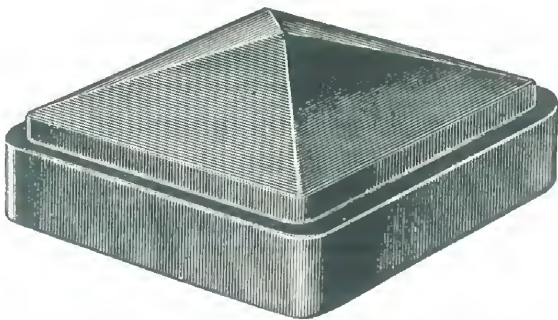
Rectangular  
3" x 4"  
3" x 6"  
3" x 8"  
4" x 6"  
4" x 8"



**TYPE "B"**  
With lugs

Square  
3" x 3"  
3½" x 3½"  
4" x 4"

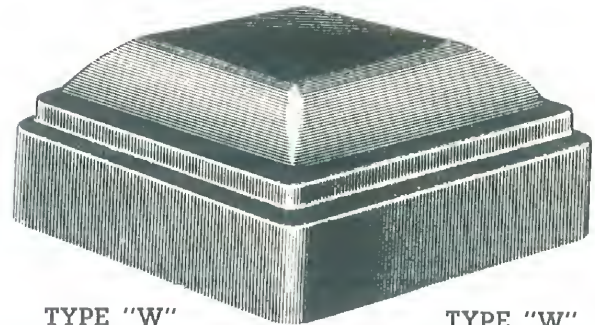
**CAST IRON**



**TYPE "A"**

**POLISHED BRONZE**

2" x 2" Square  
3" x 3" 4" x 4"



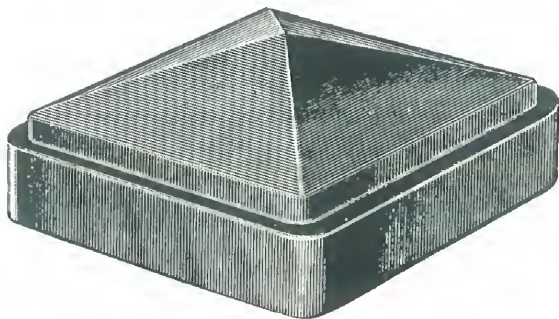
**TYPE "W"**  
**PRESSED STEEL**

Square  
3" x 3"  
4" x 4"

**TYPE "W"**  
**STAINLESS STEEL**

Square  
3" x 3"  
4" x 4"

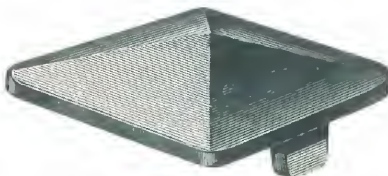
Pressed Steel Caps require no fastening as they fit snugly over the ends of the tube.



**TYPE "A"**

**POLISHED ALUMINUM**

Square  
3" x 3"  
4" x 4" Rectangular  
3" x 6"



**TYPE "C"** **CAST IRON**  
With lugs – Square  
1½" x 1½" 2½" x 2½"  
2" x 2" 3" x 3"  
4" x 4"

All sizes shown are outside measurements of tubing



BALL CAP	CAST IRON	
Post Size	Dia. Ball	Height
2" x 2"	1⅞"	3¾"
2½" x 2½"	2⅞"	4⅞"
3" x 3"	2⅞"	4⅞"
3½" x 3½"	2½"	5⅞"
4" x 4"	2¾"	5½"

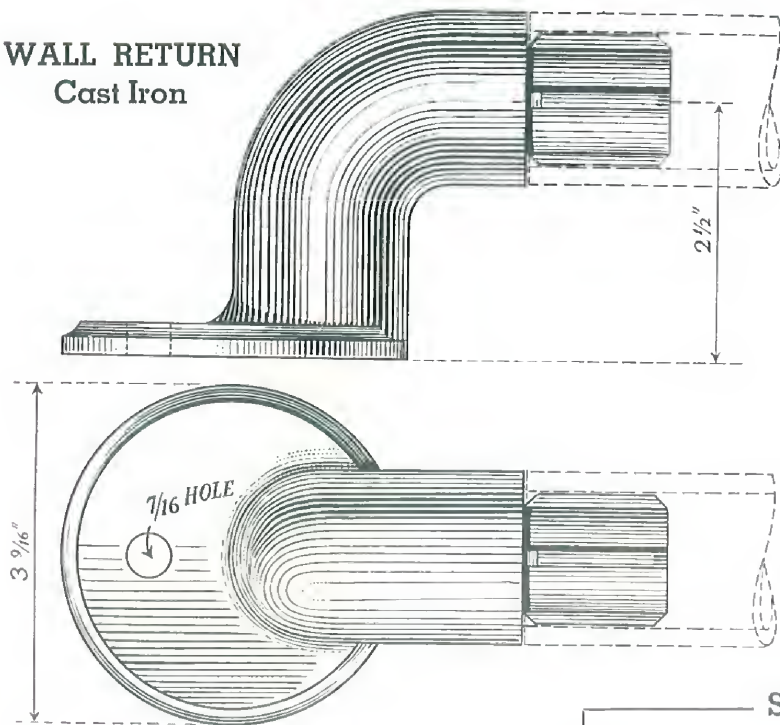


# PIPE RAILING FITTINGS

Black and Galvanized

Illustrations are NOT actual size

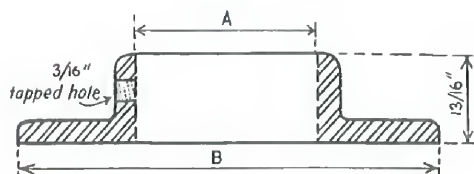
**WALL RETURN**  
Cast Iron



**WALL RETURN**

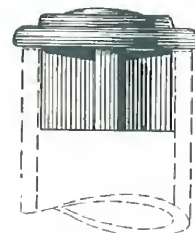
Pipe Size	Black No.	Galvanized No.
1 1/4"	604	1604
1 1/2"	605	1605

**SLIP FLANGE**  
Cast Iron



Pipe Size	Black No.	Galvanized No.	A	B
3/4"	613	1613	1 3/32"	3 3/8"
1"	614	1614	1 11/32"	3 5/8"
1 1/4"	610	1610	1 1/16"	3 7/8"
1 1/2"	611	1611	2"	4 3/16"
2"	612	1612	2 5/16"	4 5/8"

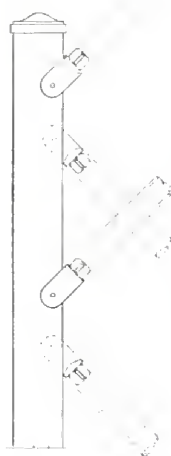
**PIPE PLUG**  
Cast Iron



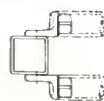
Pipe Size	Black No.	Galvanized No.
1 1/4"	607	1607
1 1/2"	608	1608
2"	609	1609

## SQUARE POST FITTING

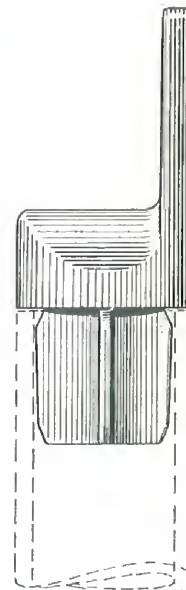
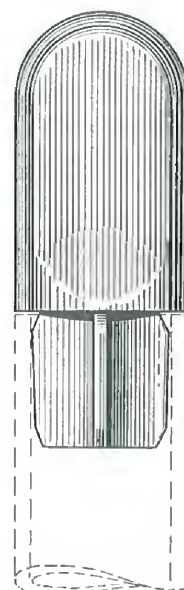
Malleable Iron  
Black Only



Square Post Fittings  
used with 4" or larger  
post.



Square Post Fittings  
used with 3" or smaller  
post.



Square post fittings are made reversible  
so as to allow enough clear space between  
ascending and descending pipe rails re-  
gardless of size of post.

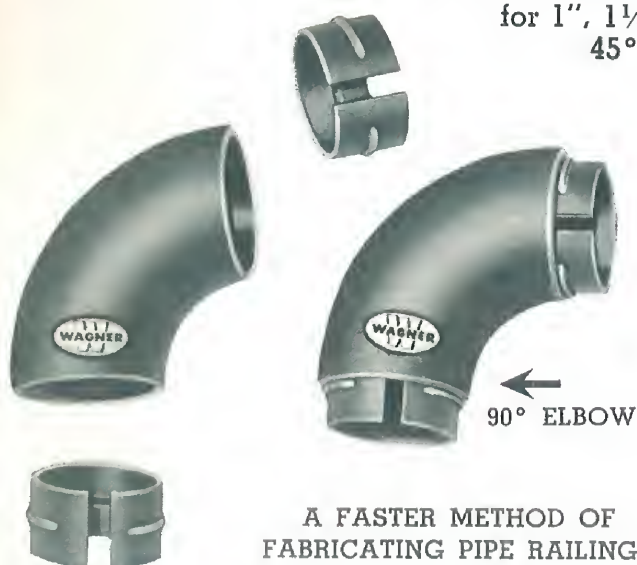
No. 601 for 1 1/4" pipe  
No. 602 for 1 1/2" pipe

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## STEEL ELBOWS FOR WELDED PIPE CONSTRUCTION

for 1", 1¼", 1½" and 2" pipe  
45° and 90° turns



RADI OF ELBOWS

Size Pipe	Inside Radius	Radius to Center
1"	1"	1⅞"
1¼"	1"	1⅞"
1½"	1¼"	2¼"
2"	1"	2⅜"

### A FASTER METHOD OF FABRICATING PIPE RAILINGS

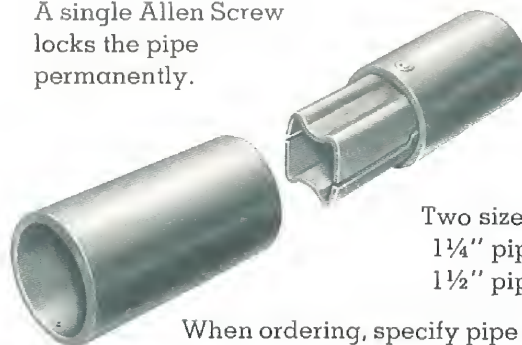
Steel Elbows and Connectors are easy to assemble. Connector snaps in place with a spring fit, holding the elbow and pipe in proper position for welding.

## PIPE SPLICE LOCK

For quick weldless end-to-end connection of pipe in the shop or in the field.

Connections made with the pipe splice lock are flush, permanent and in perfect alignment.

A single Allen Screw locks the pipe permanently.



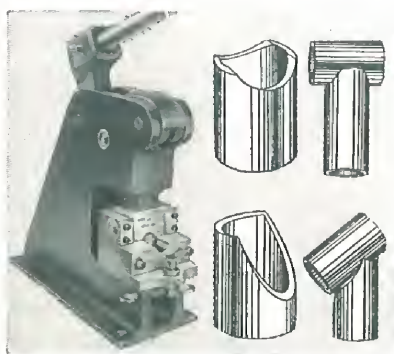
Two sizes:  
1¼" pipe  
1½" pipe

When ordering, specify pipe size.

## EQUIPMENT FOR FABRICATION OF PIPE RAILINGS

### "Arc Fit"

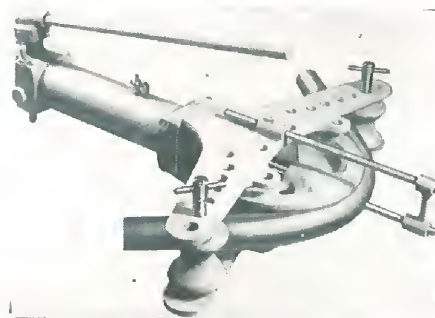
The Arc Fit notches the end of the pipe so as to produce a perfect fit for T joints — no deformation of the pipe. Dies carried in stock for ¾" to 2½" pipe.



## PORTABLE HYDRAULIC PIPE BENDER

The Tal Bender handles any size pipe without effort. Three sizes, for pipe up to 2", up to 3", and up to 4".

Also furnished with motor drive.



For details, see pages 120 and 121.

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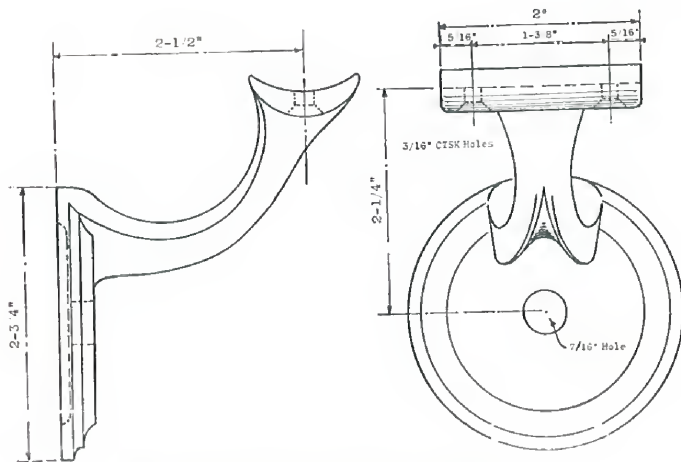
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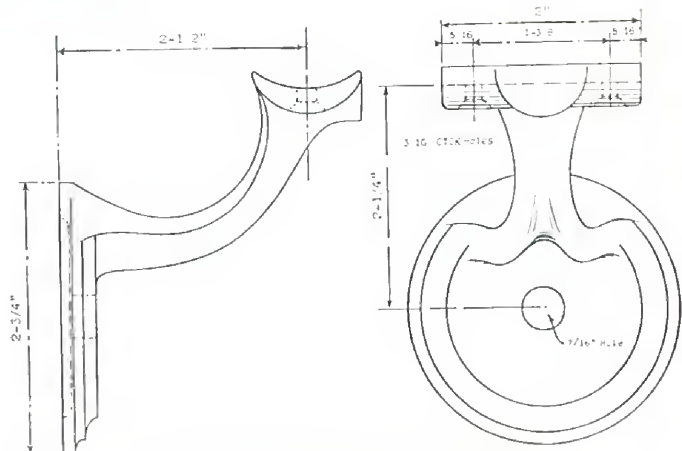
# PIPE HANDRAIL WALL BRACKETS

Curved Top Member, for 1 1/4" or Larger Pipe

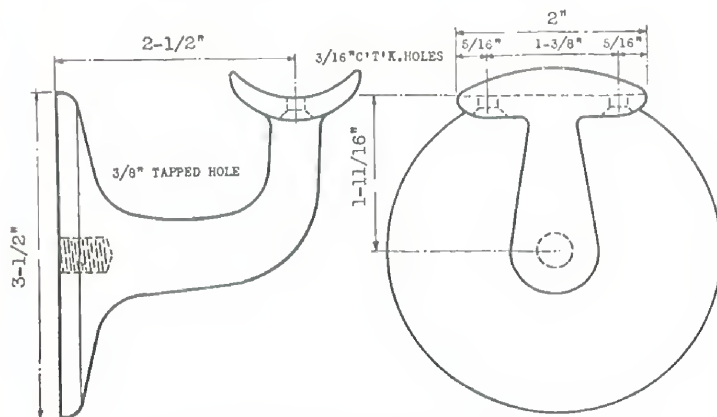
BLACK AND GALVANIZED



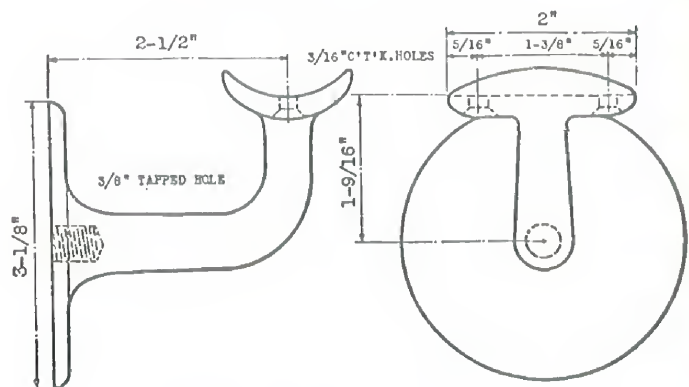
No. 380—Cast Iron—Black Only  
2 1/2" from wall to center of pipe



No. 382—Malleable Iron—Black  
No. 1382—Malleable Iron—Galvanized  
2 1/2" from wall to center of pipe

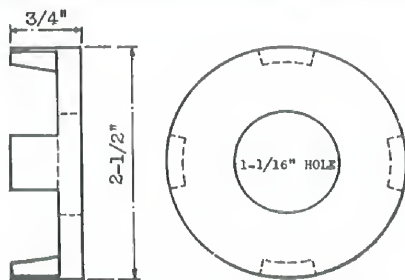


No. 374—Cast Iron—Black Only  
2 1/2" from wall to center of pipe

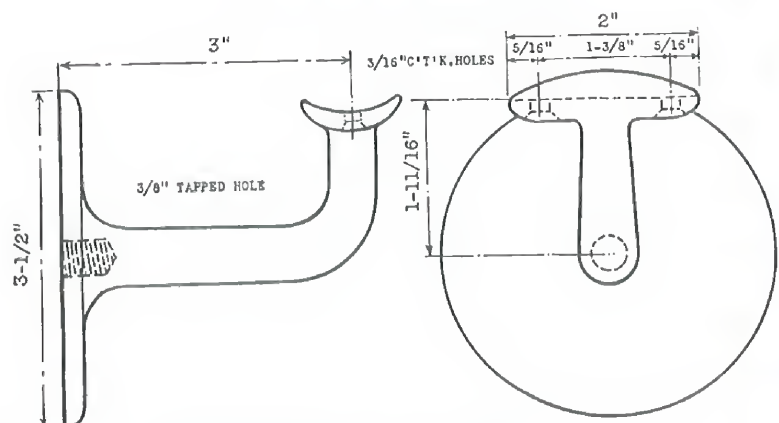


No. 378—Malleable Iron—Black  
No. 1378—Malleable Iron—Galvanized  
2 1/2" from wall to center of pipe

## HANDRAIL WALL BRACKET FILLER



No. 372—Cast Iron—Black Only  
Set in plaster wall before mounting  
Handrail Bracket



No. 386—Malleable Iron—Black  
No. 1386—Malleable Iron—Galvanized  
3" from wall to center of pipe

All styles of Handrail Brackets can also be furnished with flat top member for use with handrail moulding or flat handrail. See page 32.

Handrail Brackets are furnished with screw holes for fastening to wall and to handrail.

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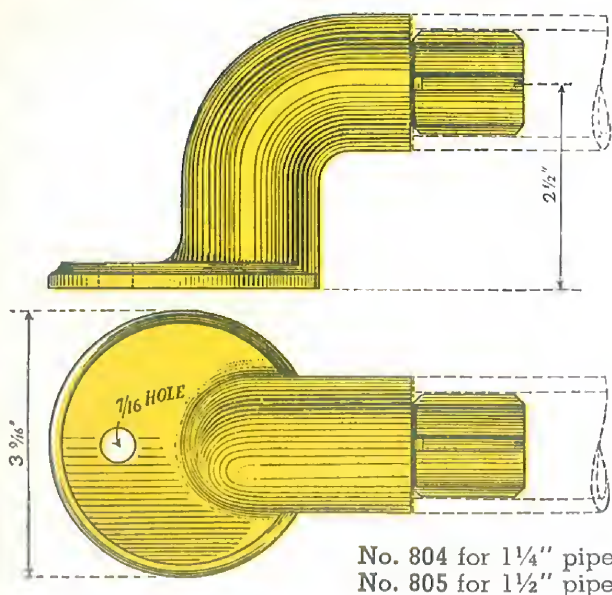
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# BRONZE HANDRAIL PIPE

Polished Bronze Pipe Railing Fittings  
(Satin Finish)

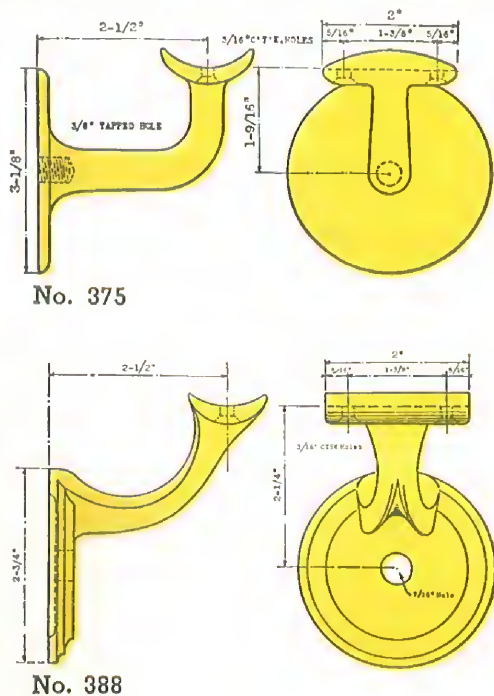
61

## BRONZE WALL RETURN



No. 804 for 1 1/4" pipe  
No. 805 for 1 1/2" pipe

## BRONZE HANDRAIL WALL BRACKETS



No. 375

No. 388

Handrail Brackets can also be furnished with flat top member for use with handrail moulding or flat handrail. See page 37.



## BRONZE HANDRAIL PIPE

Plain ends—unmarked—20 foot lengths

Nominal Size	O.D.	Wall	Weight per foot
1 1/4"	1.660	.140"	2.63 lb.
1 1/2"	1.900	.145"	3.13 lb.

Bronze Handrail Pipe matches the color of Architectural Bronze Shapes and bars.

## BRONZE PIPE PLUG



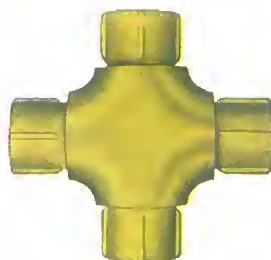
No. 807 for 1 1/4" pipe  
No. 808 for 1 1/2" pipe

## BRONZE 90° ELBOW



No. 818 for 1 1/4" pipe  
No. 819 for 1 1/2" pipe

## BRONZE 90° CROSS



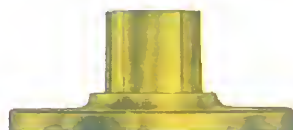
No. 824 for 1 1/4" pipe  
No. 825 for 1 1/2" pipe

## BRONZE 90° TEE



No. 821 for 1 1/4" pipe  
No. 822 for 1 1/2" pipe

## BRONZE FLOOR FLANGE



No. 827 for 1 1/4" pipe  
No. 828 for 1 1/2" pipe

## BRONZE COVER FLANGE



No. 810 for 1 1/4" pipe  
No. 811 for 1 1/2" pipe

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SADDLES—NOSINGS

MOULDINGS—FUNCTIONAL SHAPE.

ORNAMENTS—HARDWARE

MACHINE.

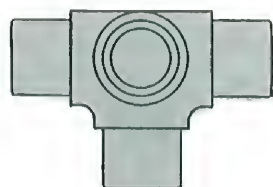
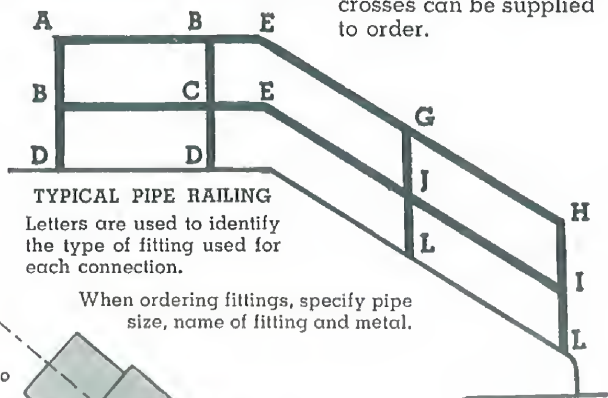


# ALCOA ALUMINUM HANDRAIL PIPE FITTINGS

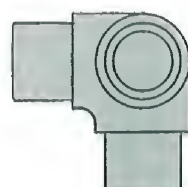
Flush type — Unpolished

ALLOY 214 — SUITABLE FOR ALUMILITING

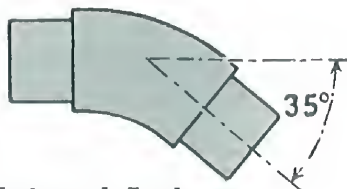
All fittings shown here are carried in stock. 40° Angle Fittings, angle fittings with side outlet, half angle tees and crosses can be supplied to order.



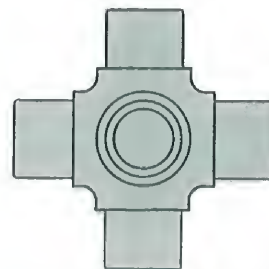
90° Tee  
Side Outlet  
1 1/4"–1 1/2" pipe



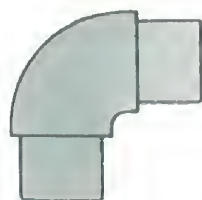
90° Elbow  
Side Outlet  
1 1/4"–1 1/2" pipe



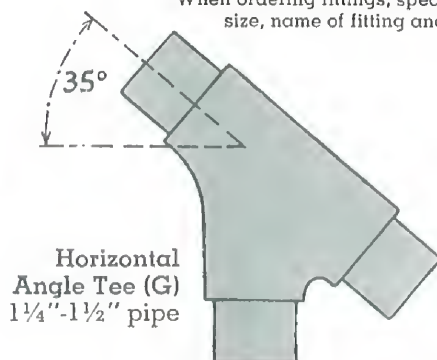
Horizontal Angle  
Elbow (E)  
1 1/4"–1 1/2" pipe



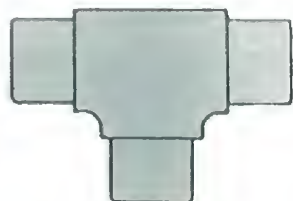
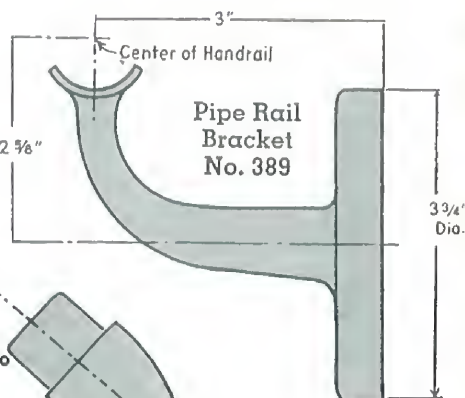
90° Cross, Side Outlet  
1 1/4"–1 1/2" pipe



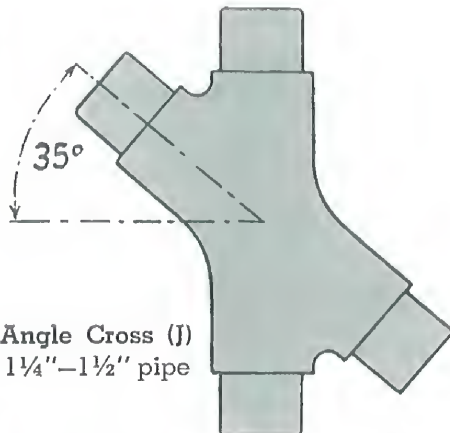
90° Elbow (A)  
1 1/4"–1 1/2"–2" pipe



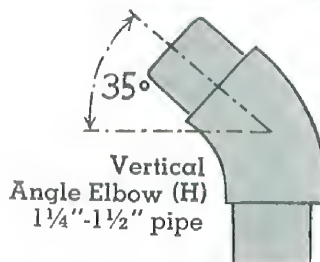
Horizontal  
Angle Tee (G)  
1 1/4"–1 1/2" pipe



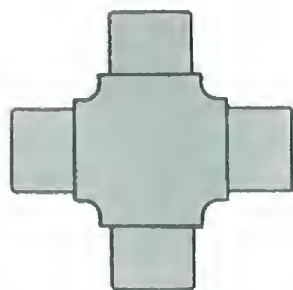
90° Tee (B)  
1 1/4"–1 1/2"–2" pipe



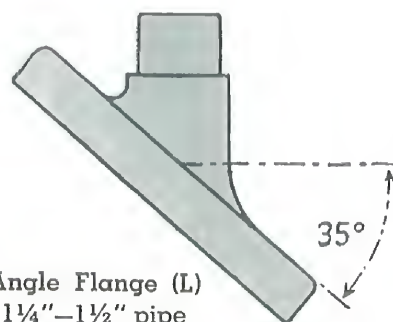
Angle Cross (J)  
1 1/4"–1 1/2" pipe



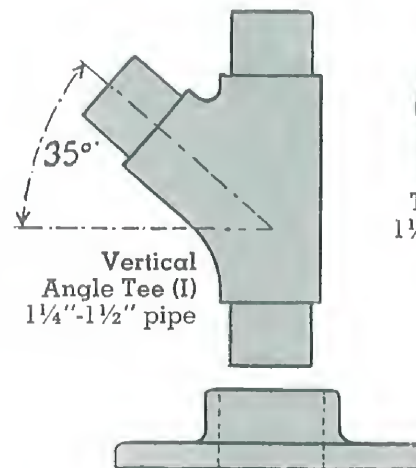
Vertical  
Angle Elbow (H)  
1 1/4"–1 1/2" pipe



90° Cross (C)  
1 1/4"–1 1/2"–2" pipe



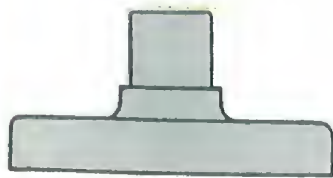
Angle Flange (L)  
1 1/4"–1 1/2" pipe



Vertical  
Angle Tee (I)  
1 1/4"–1 1/2" pipe



Terminus  
1 1/4"–1 1/2"–2"  
pipe



Floor Flange (D)  
1 1/4"–1 1/2"–2" pipe



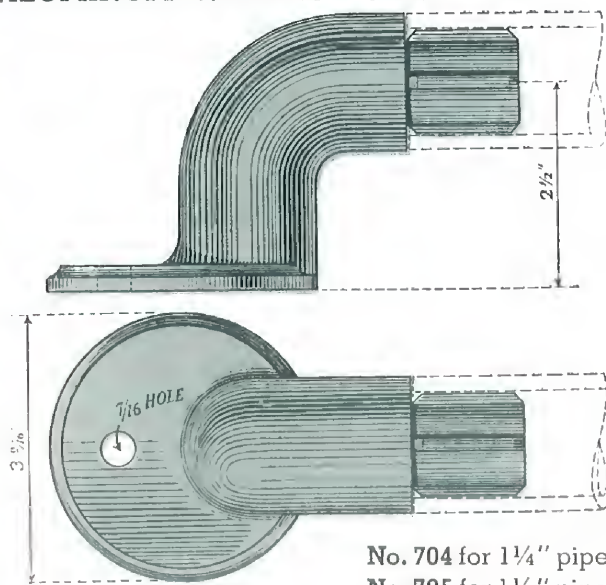
Cover Flange  
1 1/4"–1 1/2"–2" pipe

# ALUMINUM HANDRAIL PIPE

Polished Aluminum Pipe Railing Fittings  
(Satin Finish)

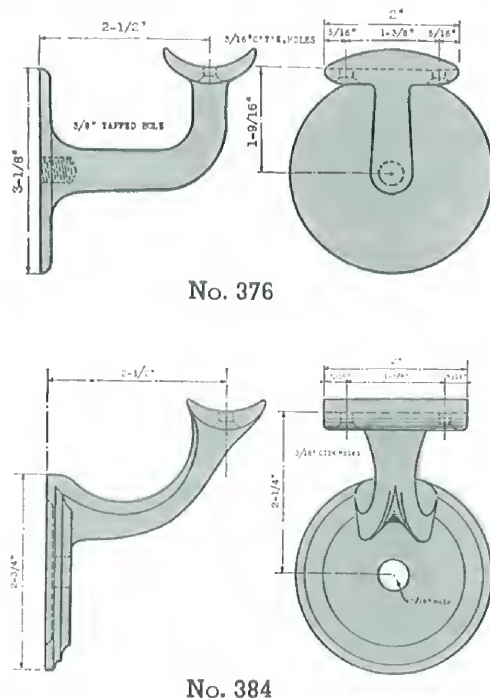
63

## ALUMINUM WALL RETURN



No. 704 for 1 1/4" pipe  
No. 705 for 1 1/2" pipe

## ALUMINUM HANDRAIL WALL BRACKETS



No. 376

No. 384

Handrail brackets can also be furnished with flat top member for use with handrail moulding or flat handrail. See page 37.

## ALUMINUM I.P.S. TUBING (Handrail Pipe)

Alloy 6063-T832 (63S-T832) except as noted  
20 foot lengths—suitable for alumilinting.

Nominal Size	O.D.	Wall Thickness	Weight per foot
3/4" *	1.050"	.113"	.391 lb.
1" *	1.315"	.133"	.581 lb.
1 1/4"	1.660"	.140"	.785 lb.
1 1/2"	1.900"	.145"	.940 lb.
2" *	2.375"	.154"	1.264 lb.

This pipe is produced especially for use in railings, combining straightness, accurate dimensions and superior finish.

\* Alloy 6063-T5 (63S-T5)

## ALUMINUM PIPE PLUGS



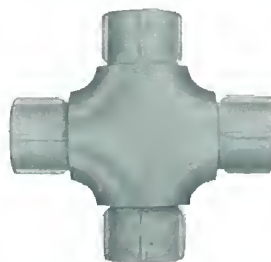
No. 707 for 1 1/4" pipe  
No. 708 for 1 1/2" pipe  
No. 709 for 2" pipe

## ALUMINUM 90° ELBOWS



No. 718 for 1 1/4" pipe  
No. 719 for 1 1/2" pipe  
No. 720 for 2" pipe

## ALUMINUM 90° CROSS



No. 724 for 1 1/4" pipe  
No. 725 for 1 1/2" pipe  
No. 726 for 2" pipe

## ALUMINUM 90° TEE



No. 721 for 1 1/4" pipe  
No. 722 for 1 1/2" pipe  
No. 723 for 2" pipe

## ALUMINUM COVER FLANGE



No. 710 for 1 1/4" pipe  
No. 711 for 1 1/2" pipe  
No. 712 for 2" pipe

## ALUMINUM FLOOR FLANGE



No. 727 for 1 1/4" pipe  
No. 728 for 1 1/2" pipe  
No. 729 for 2" pipe

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SADDLES—NOSINGS

MOULDINGS—FUNCTIONAL SHAPE

ORNAMENTS—HARDWARE

MACHINE



## SADDLES-NOSINGS

ALL the shapes described in this section are carried in stock in long random lengths. They can also be furnished cut to specified lengths.

Door Sills and Elevator Saddles of any length, width or shape can be constructed with our sections. The bars are straight, true and free from imperfections. The sectional saddles are easily assembled, eliminating costly patterns, delays and finishing operations.

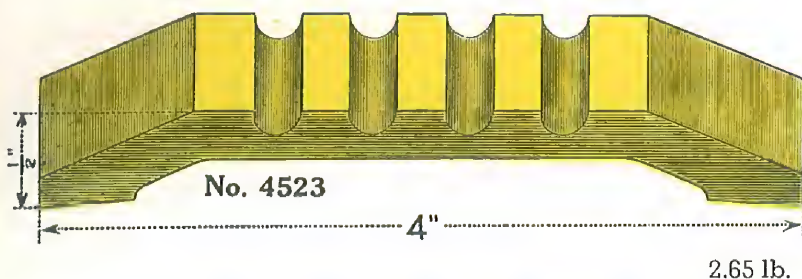
Every item listed in this section is carried in stock in substantial quantities. Shipment usually can be made immediately upon receipt of order.

### Subjects covered in this section:

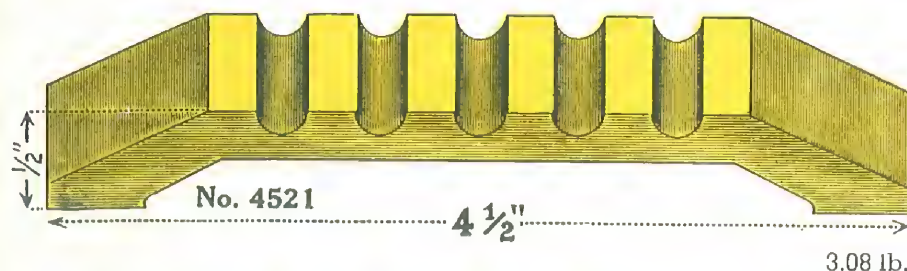
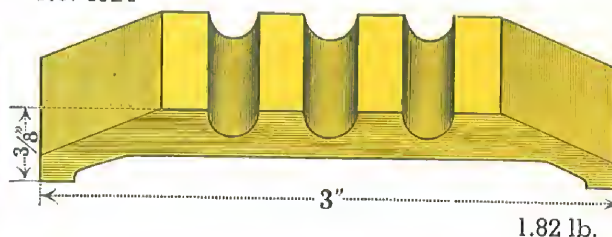
		Page No.
Aluminum	Door Saddles	66, 67
	Weatherstrip Saddle	67
	Step Nosings	80, 81
	Assembled Saddle Sections	71
	Elevator Saddle Sections	79
	Aluminum Screws	66
Bronze	Door Saddles	65, 66
	Weatherstrip Saddles	68
	Roof Door Saddle	68
	Assembled Saddle Sections	71, 72
	Elevator Saddle Sections	76, 77
	Step Nosings	81
	Brass Screws	65
Steel	Door Saddles	69
	Assembled Saddle Sections	73
	Elevator Saddle Sections	78
	Step Nosings	80, 81
	Curb Bar	80
Nickel Silver	(White Bronze) Elevator Saddles	79

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No. 4524



## BRASS MACHINE SCREWS FLAT HEAD

1/4" x 1" x 20 threads p. in.  
1/4" x 1 1/4" x 20 threads p. in.  
1/4" x 1 1/2" x 20 threads p. in.

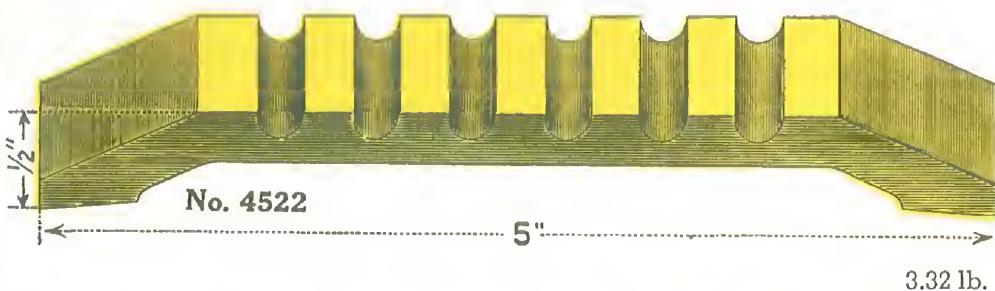


## BRASS WOOD SCREWS FLAT HEAD

1 1/2" long x No. 14  
2" long x No. 14



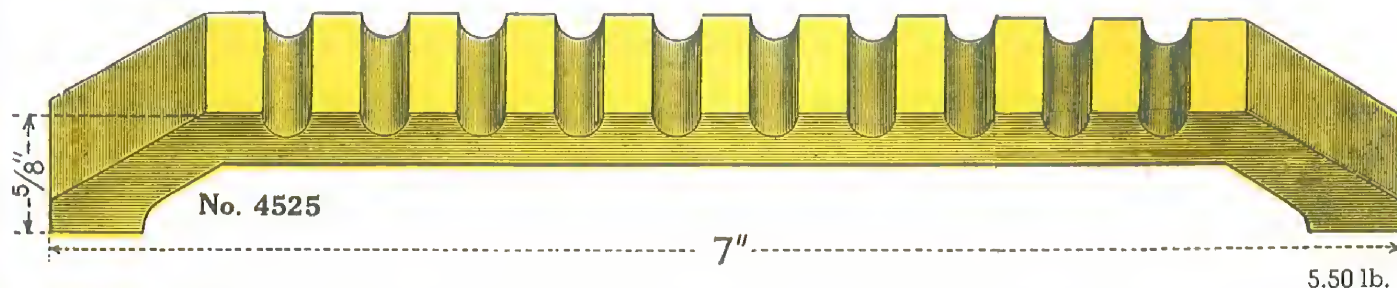
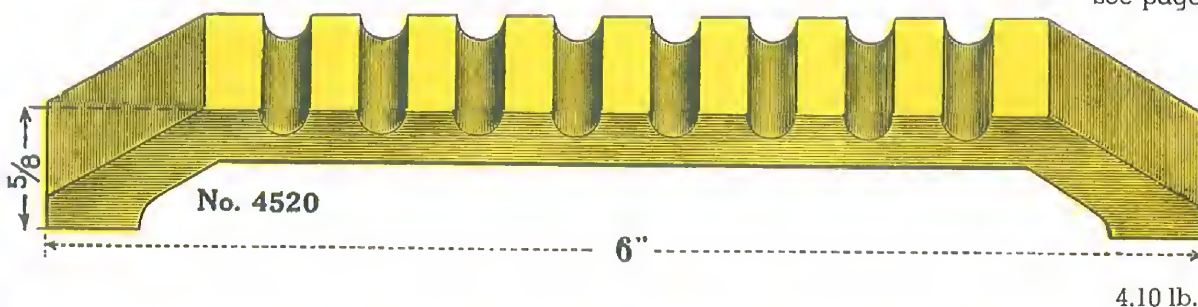
We can also supply Lead Anchors or Tampins required for installing saddles.



## EXTRA WIDE SADDLES

Bronze Door Saddles of any desired width may be assembled from sections described on pages 71 and 72.

For smooth top saddles, see page 66.



Carried in stock in long, straight bars. Can also be furnished cut to specified lengths. Bronze Door Saddles have a bright mill finish which usually makes polishing unnecessary.

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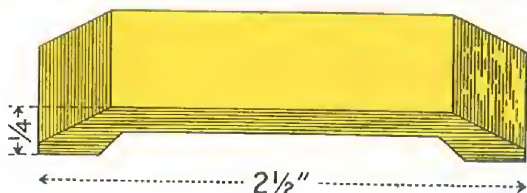
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# ARCHITECTURAL BRONZE DOOR SADDLES

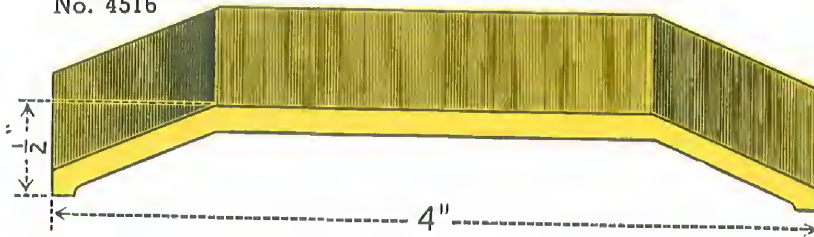
No. 4510

1.18 lb.



No. 4516

1.90 lb.



Bronze Door Saddles have a bright mill finish which usually makes polishing unnecessary.

## ARCHITECTURAL ALUMINUM DOOR SADDLES

Alloy 6063-T5 (63S-T5)

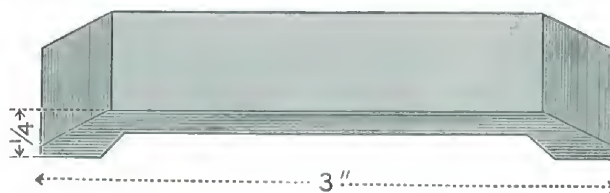
No. 6910

.365 lb.



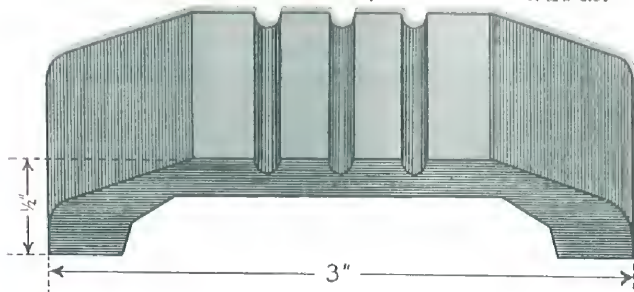
No. 6914 (Alcoa No. 10351)

.476 lb.



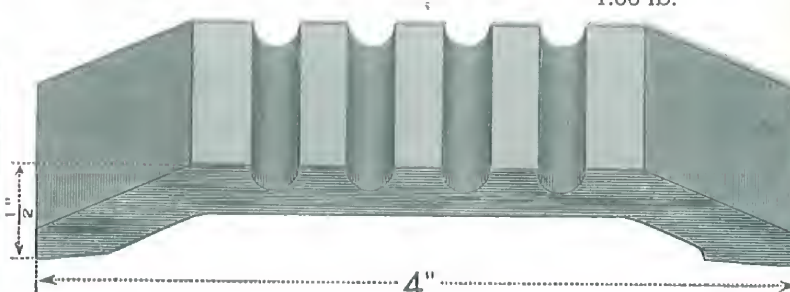
No. 6924 (Alcoa No. 38651)

.721 lb.



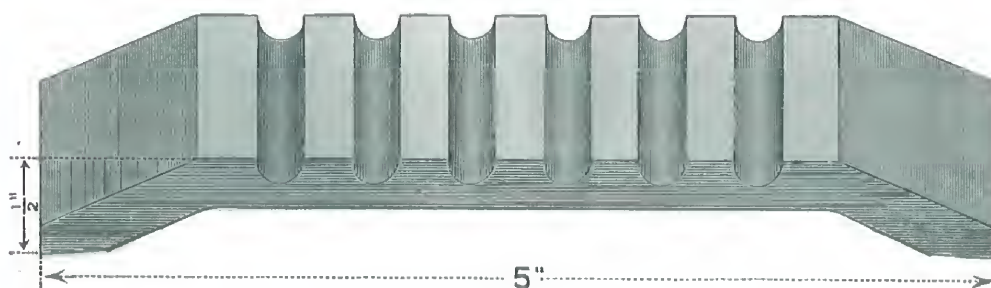
No. 6923

1.05 lb.



No. 6922

1.27 lb.



### ALUMINUM MACHINE SCREWS FLAT HEAD

1/4" x 1" x 20 threads p. in.  
1/4" x 1 1/4" x 20 threads p. in.  
1/4" x 1 1/2" x 20 threads p. in.



### ALUMINUM WOOD SCREWS FLAT HEAD

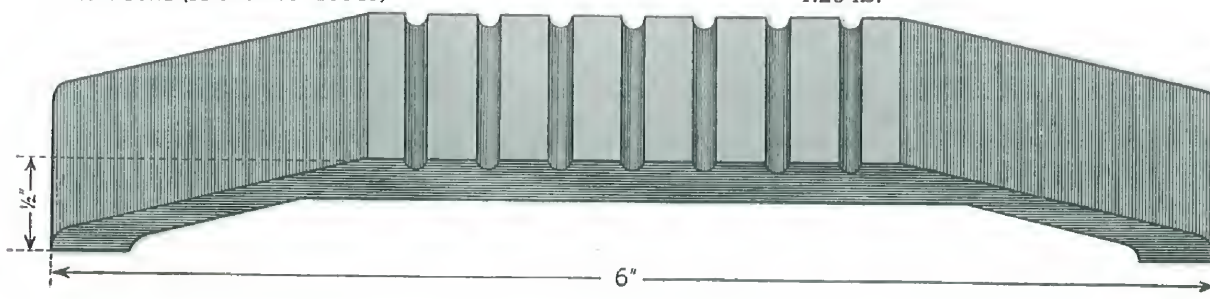
1 1/2" long x No. 14  
2" long x No. 14



We can also supply Lead Anchors or Tam-pins required for installing saddles.

No. 6921 (Alcoa No. 19049)

1.23 lb.

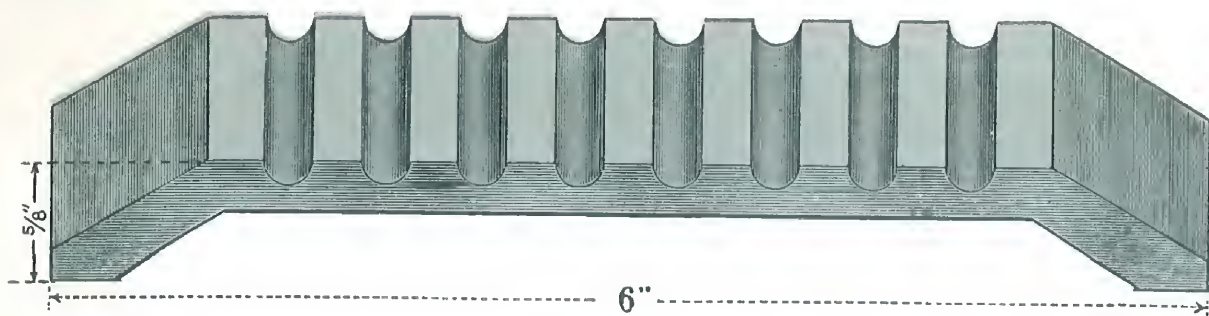


# ARCHITECTURAL ALUMINUM DOOR SADDLES

67

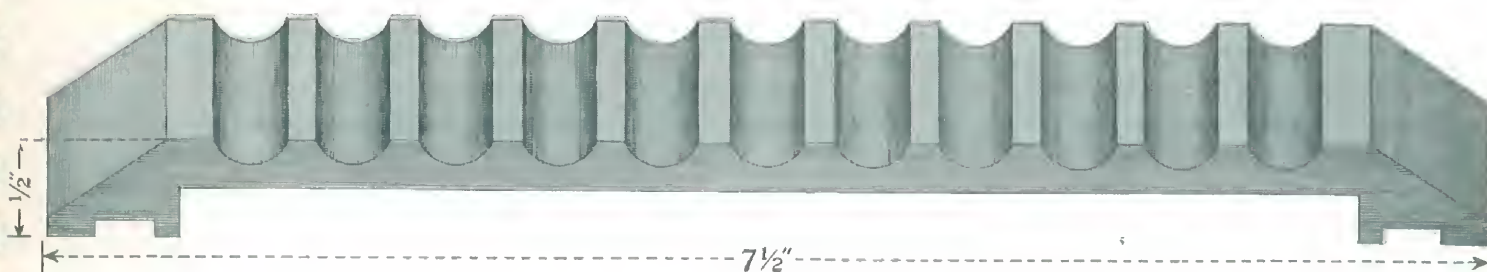
Alloy 6063-T5 (63S-T5)

No. 6920



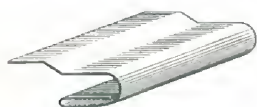
1.53 lb.

No. 6919 (Alcoa No. 7032)



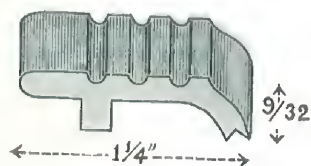
1.80 lb.

## ARCHITECTURAL ALUMINUM WEATHERSTRIP DOOR SILLS



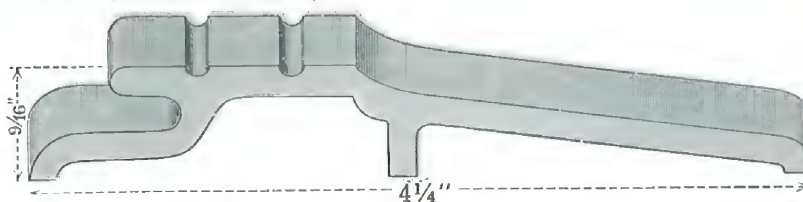
Bronze or Zinc Interlocking Hook Strip. For use with weatherstrip door sills.

No. 6998 (Alcoa No. 10346)



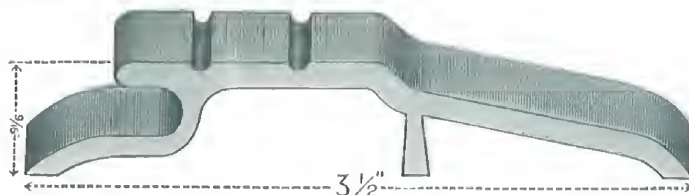
.180 lb.

No. 6991 (Alcoa No. 38649)



.689 lb.

No. 6990 (Alcoa No. 10353)



.595 lb.

Aluminum Door Saddles are made from a tough, heat treated, wear resisting Aluminum Alloy. Surface is free from imperfections. A highly polished finish can be produced by buffing.

CARRIED IN STOCK IN LONG STRAIGHT BARS. CAN ALSO BE FURNISHED CUT TO SPECIFIED LENGTHS

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MOULDINGS—FUNCTIONAL SHAPE.

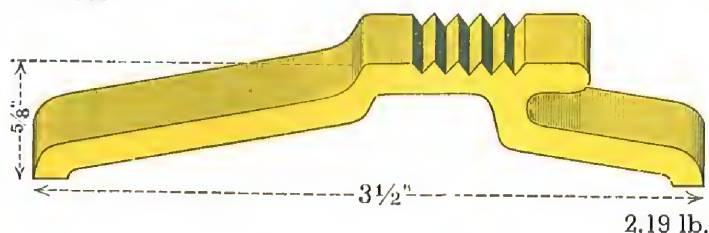
ORNAMENTS—HARDWARE

MACHINE.



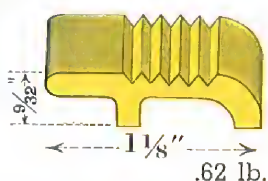
# Architectural Bronze Weatherstrip Door Saddles

No. 4590



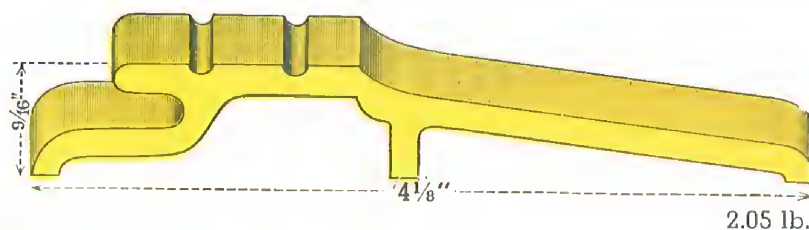
Bronze or Zinc Interlocking Hook Strip. For use with weatherstrip door sills.

No. 4598

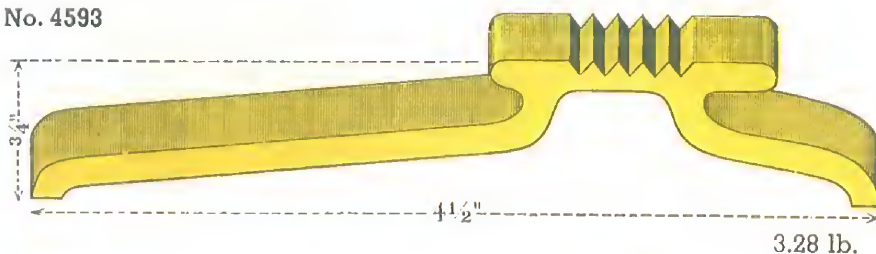


May be used alone or with other saddle sections.

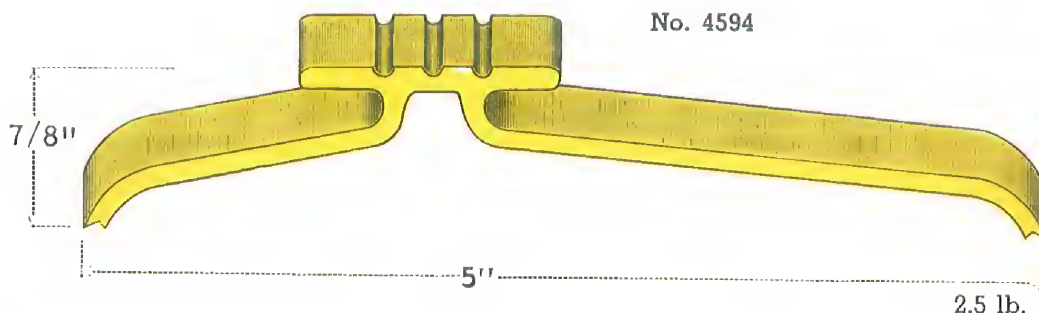
No. 4591



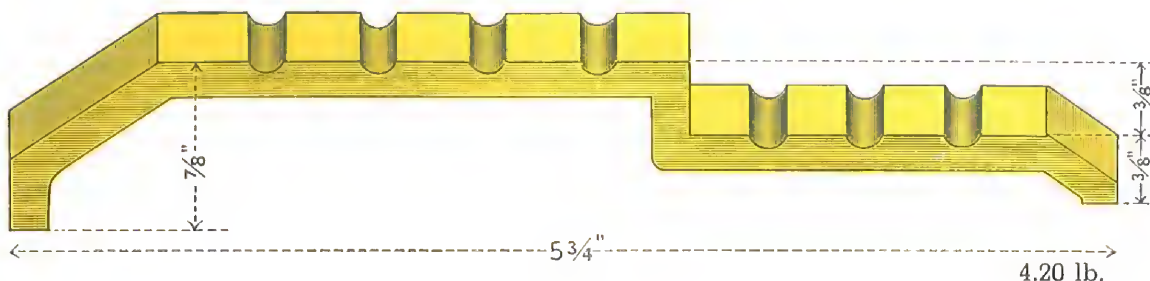
No. 4593



No. 4594



No. 4597 ROOF DOOR SADDLE

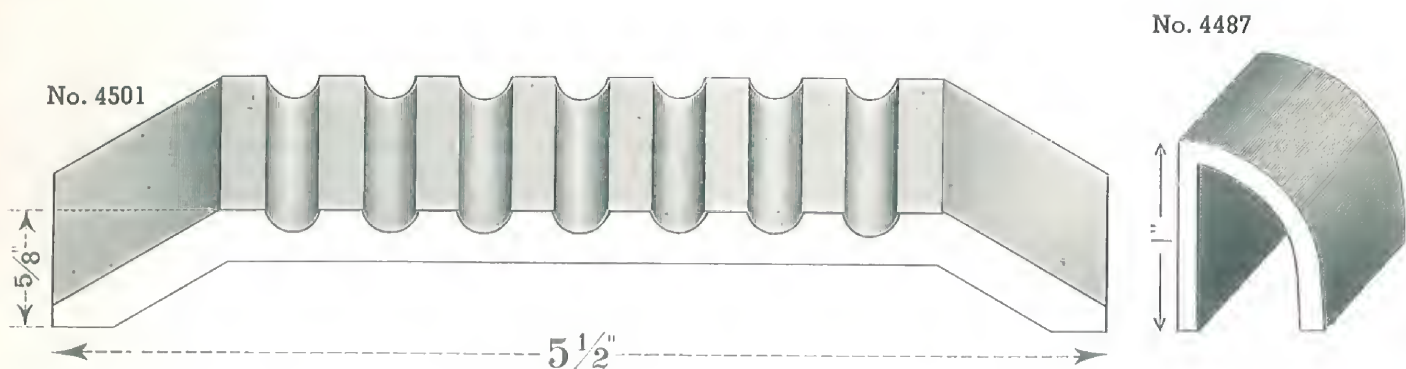
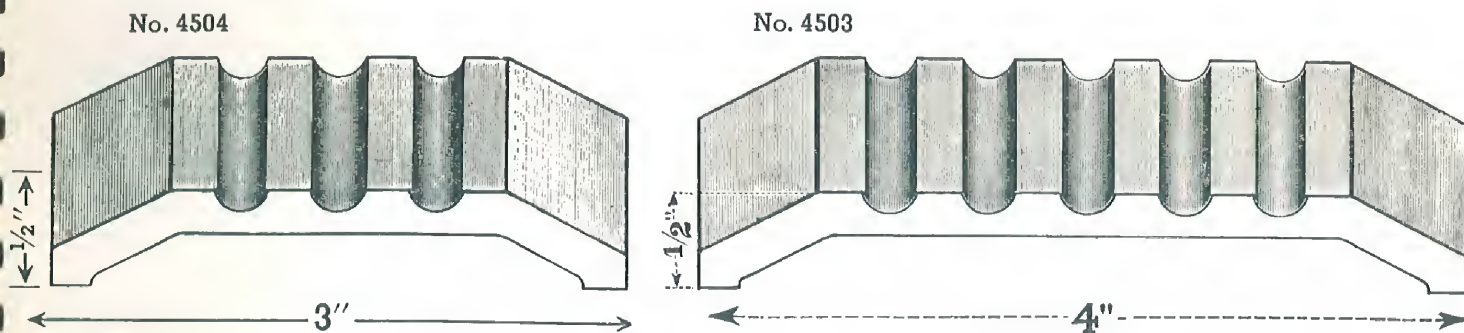


Architectural Bronze Door Saddles are furnished with a bright mill finish which usually makes polishing unnecessary.

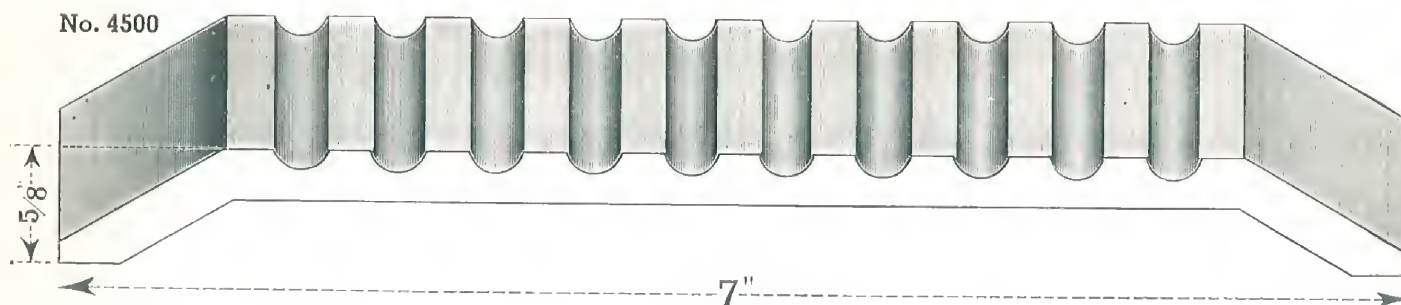
CARRIED IN STOCK IN LONG, STRAIGHT BARS, CAN ALSO BE FURNISHED CUT TO SPECIFIED LENGTH • NO BREAKAGE • NO IMPERFECTIONS • NO STRAIGHTENING • NO PATTERNS • LOW IN COST • NO WAITING • NO ERRORS

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Bathroom Door Saddle



## STRONGER AND CHEAPER THAN CAST IRON

Rolled Steel Door Saddles are specified for low cost public housing projects.

Carried in stock in long straight bars. Can also be furnished cut to specified lengths

## EXTRA WIDE DOOR SADDLES

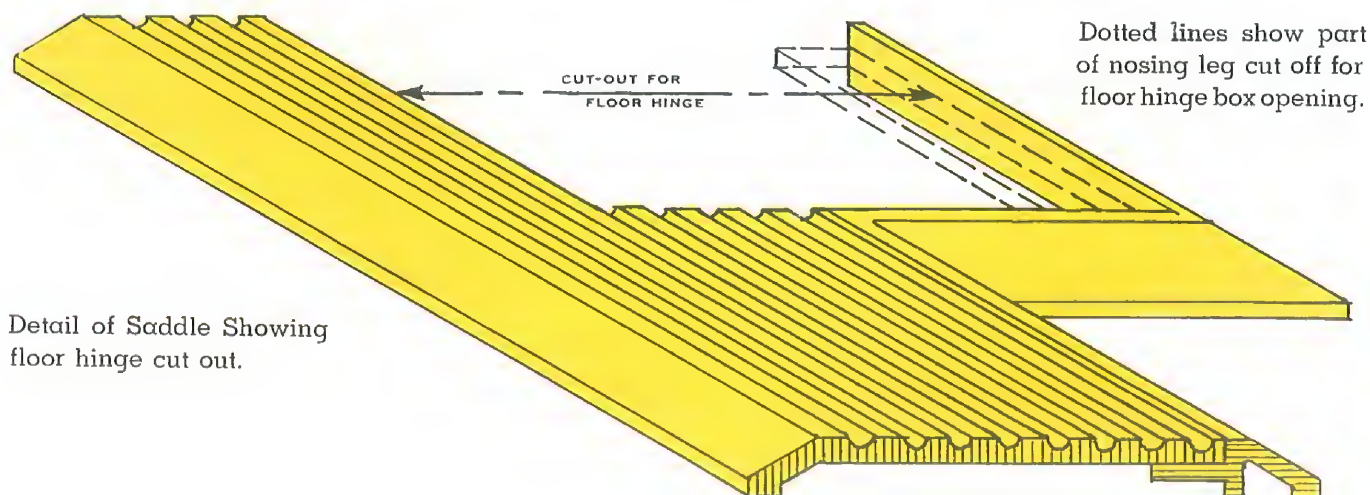
Rolled Steel Door Saddles of any desired width may be assembled from sections described on page 73.

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## Typical Construction of Door Saddle with cut-out for Floor Hinges



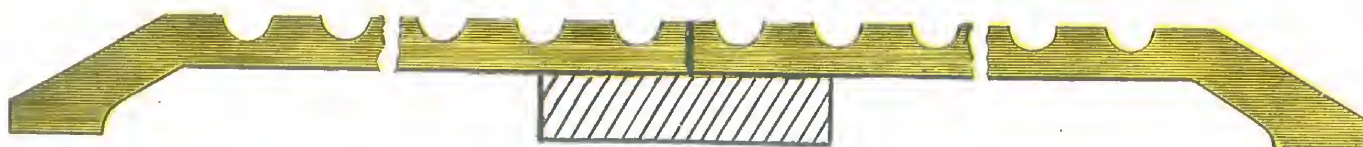
Detail of Saddle Showing floor hinge cut out.

## Assembled Aluminum or Architectural Bronze Door Saddles

Typical construction details

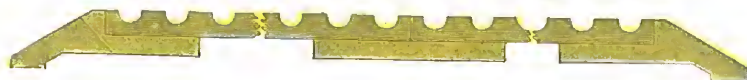


Detail of assembled Door Saddle.  
Cut-outs for floor hinges can be made easily before assembling.



Detail of assembled Door Saddle up to 10" wide. Wider saddles may be constructed by adding a flat fluted section in the center. The pattern of all fluted sections being identical, the joints will not be apparent.

### ASSEMBLED DOOR SADDLE, EXTRA WIDE



Door Saddles of extreme width may be constructed by using two or more fluted flat sections side by side, with a plate underneath.

### ASSEMBLED ROOF DOOR SADDLE



The pattern of all fluted sections being identical, the joint will not be apparent.

### ASSEMBLED DOOR SADDLE WITH GROOVE FOR SLIDING DOOR



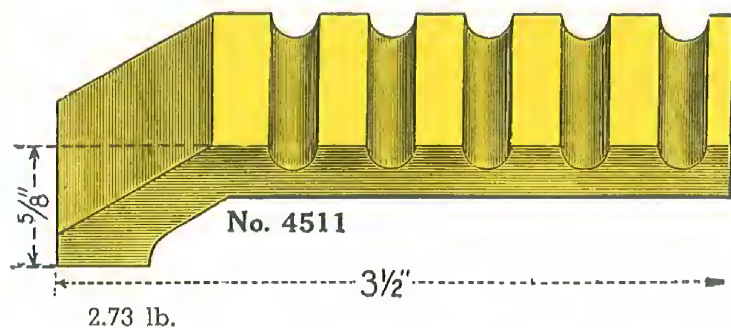
Saddles with double grooves for double sliding doors or screen doors may be assembled by using our double groove sections. See page 76.



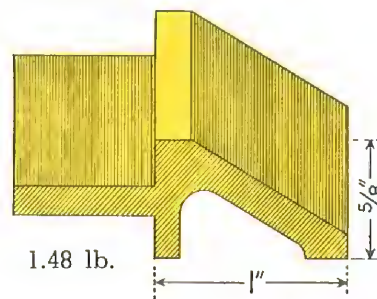
# SECTIONS FOR ASSEMBLED DOOR SADDLES

## Architectural Bronze

71

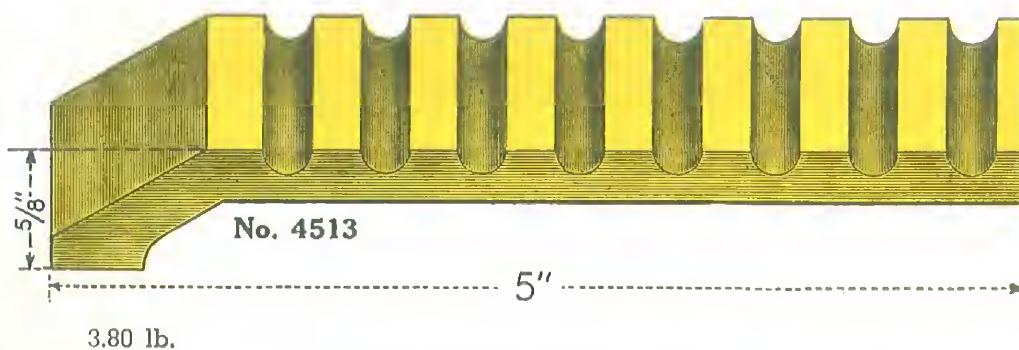
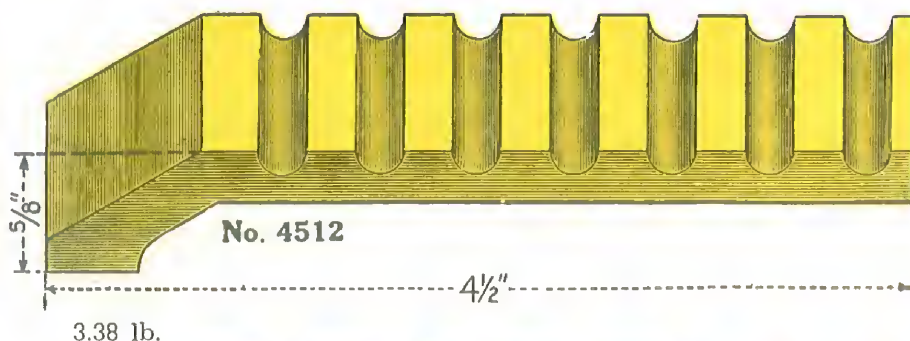


No. 4527



### BEVEL END SECTION

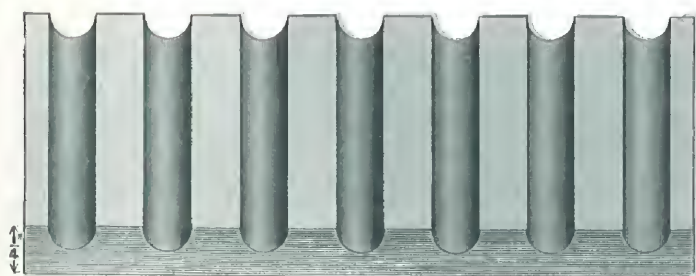
For floor hinge saddles, the flange of this section is removed along hinge box opening.



.10 lb.

1/4" Half Round  
for filling in grooves.

## Architectural Aluminum Alloy 6063-T5 (63S-T5)



### FLAT FLUTED SECTIONS

No. 6970—1 1/2" wide—.361 lb. per ft.

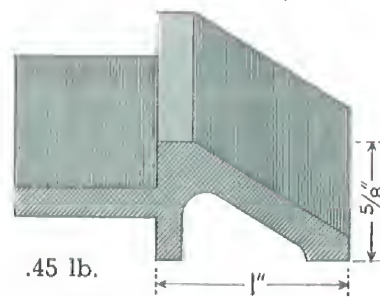
No. 6971—2 " wide—.482 lb. per ft.

No. 6973—3 " wide—.723 lb. per ft.

No. 6975—4 " wide—.964 lb. per ft.

FOR FULL SIZE DETAILS OF FLAT FLUTED SECTIONS, SEE PAGE 79.

No. 6927



### BEVEL END SECTION

For floor hinge saddles, the flange of this section is removed along hinge box opening.

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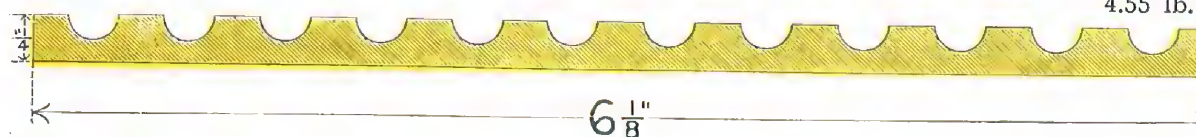


## SECTIONS FOR ASSEMBLED DOOR SADDLES

AND FOR EXPANSION JOINTS

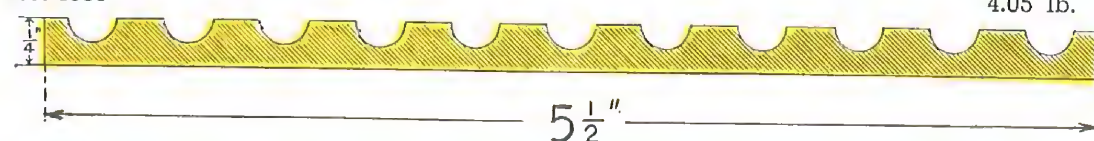
## Architectural Bronze

No. 4559

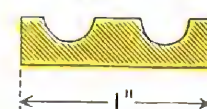


For assembly details, see pages 70 and 74

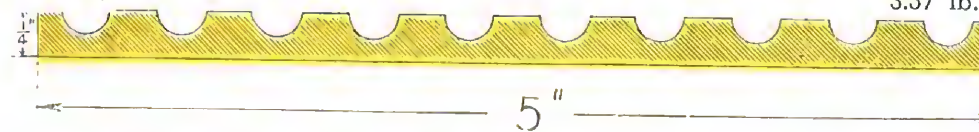
No. 4550



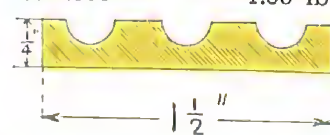
No. 4566 .72 lb.



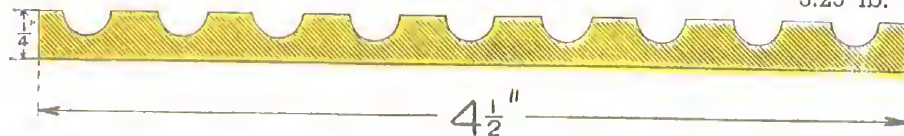
No. 4551



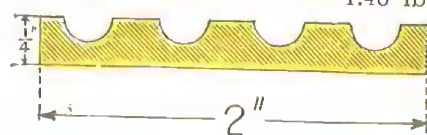
No. 4558



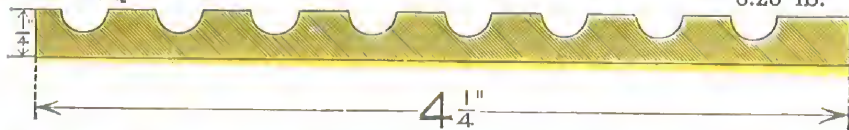
No. 4552



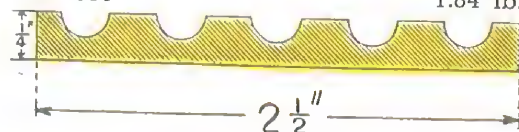
No. 4557



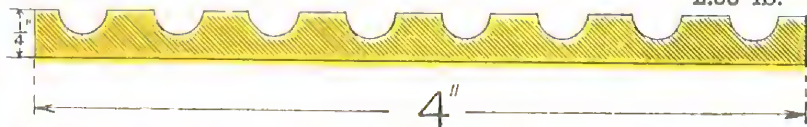
No. 4553Q



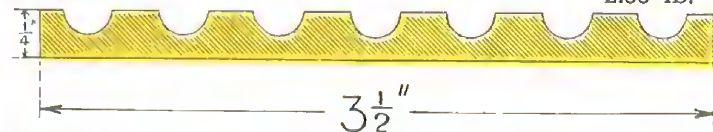
No. 4556



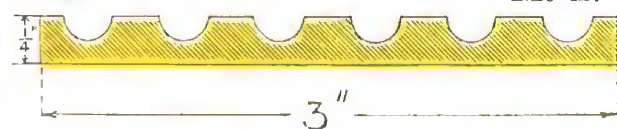
No. 4553



No. 4554



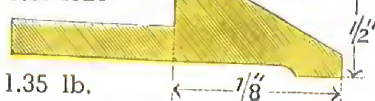
No. 4555



No. 4528



No. 4526



## PLAIN FLATS FOR PANELS

$\frac{1}{4}'' \times \frac{3}{8}''$	.342 lb.	$\frac{1}{4}'' \times 1\frac{1}{4}''$	1.150 lb.
$\frac{1}{4}'' \times \frac{1}{2}''$	.456 "	$\frac{1}{4}'' \times 1\frac{1}{2}''$	1.380 "
$\frac{1}{4}'' \times \frac{5}{8}''$	.576 "	$\frac{1}{4}'' \times 2''$	1.842 "
$\frac{1}{4}'' \times \frac{3}{4}''$	.691 "	$\frac{1}{4}'' \times 2\frac{1}{2}''$	2.300 "
$\frac{1}{4}'' \times 1''$	.921 "	$\frac{1}{4}'' \times 3''$	2.766 "
		$\frac{1}{4}'' \times 4''$	3.650 lb.

For other sizes of Bronze Flats, see page 10.

No. 4527



CARRIED IN STOCK IN LONG, STRAIGHT BARS, CAN ALSO BE FURNISHED CUT TO SPECIFIED LENGTHS  
 NO BREAKAGE • LOW IN COST • NO IMPERFECTIONS • NO STRAIGHTENING • NO WAITING  
 NO PATTERNS • NO ERRORS

These Sections are furnished with a bright mill finish which makes Polishing unnecessary in many cases.

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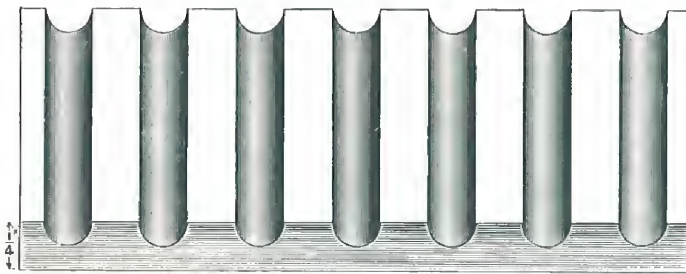
# SECTIONS FOR ASSEMBLED DOOR SADDLES

73

AND FOR EXPANSION JOINTS

Rolled Steel

## FLAT FLUTED SECTIONS

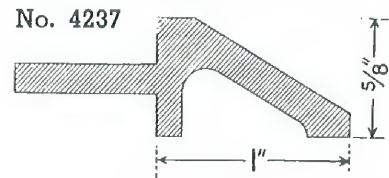


No. 4540—1½" wide  
No. 4541— 2" wide  
No. 4542—2½" wide  
No. 4543— 3" wide

No. 4544—3½" wide  
No. 4545— 4" wide  
No. 4546—4½" wide

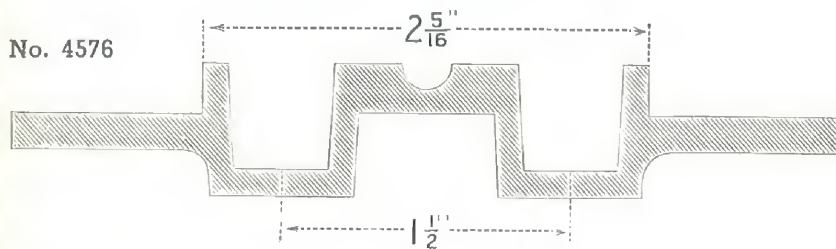
For full size details of Flat Fluted Sections, see page 78.

## BEVEL END SECTION



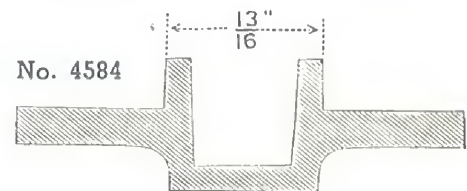
For floor hinge saddles the flange of this section is removed along hinge box opening.

## DOUBLE GROOVE SECTIONS



Furnished in three sizes.  
For full size details, see page 78.

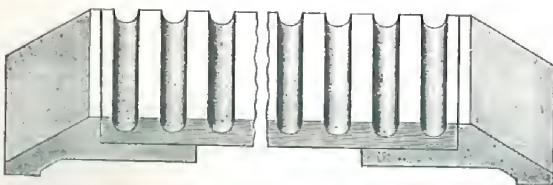
## SINGLE GROOVE SECTION



## Assembled Rolled Steel Door Saddles

Typical Construction Details

### ASSEMBLED DOOR SADDLE

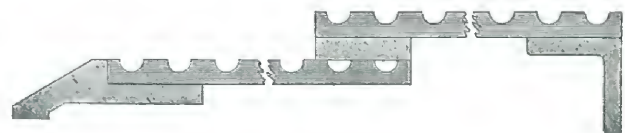


Door saddles of extreme width may be constructed by using two or more fluted flat sections side by side. The pattern of all fluted sections being identical, the joint will not be apparent.

### ASSEMBLED DOOR SADDLE, EXTRA WIDE



### ASSEMBLED ROOF DOOR SADDLE



### ASSEMBLED DOOR SADDLE WITH GROOVE FOR SLIDING DOOR



Saddles with double grooves for double doors or screen doors may be assembled by using our double groove sections.

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MOULDINGS—FUNCTIONAL SHAPE.

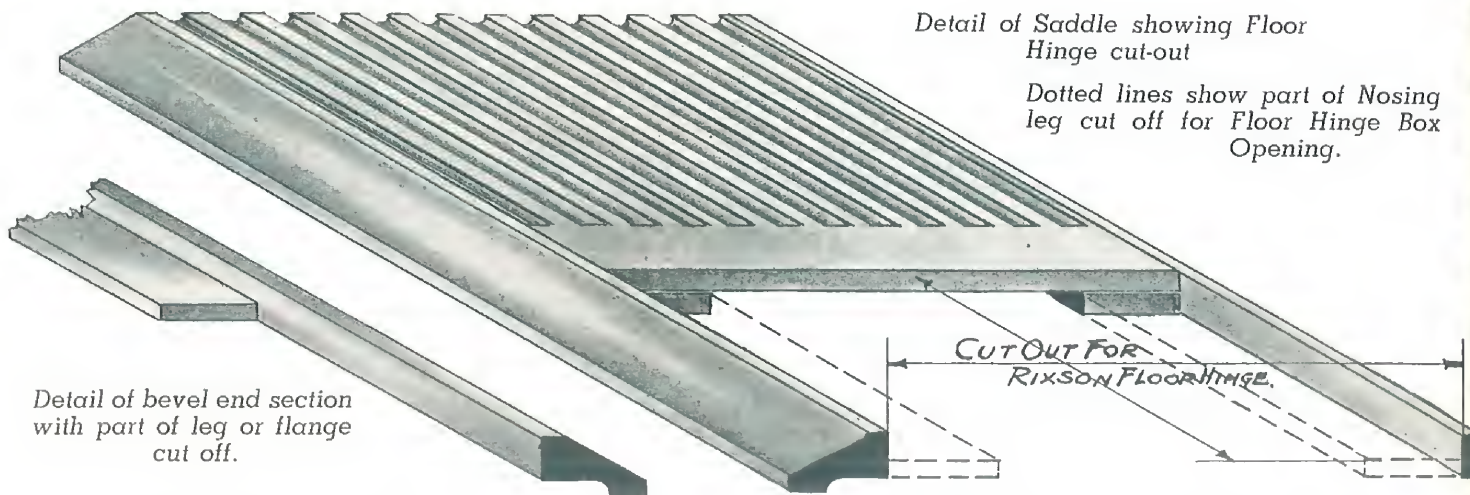
ORNAMENTS—HARDWARE

MACHINE.



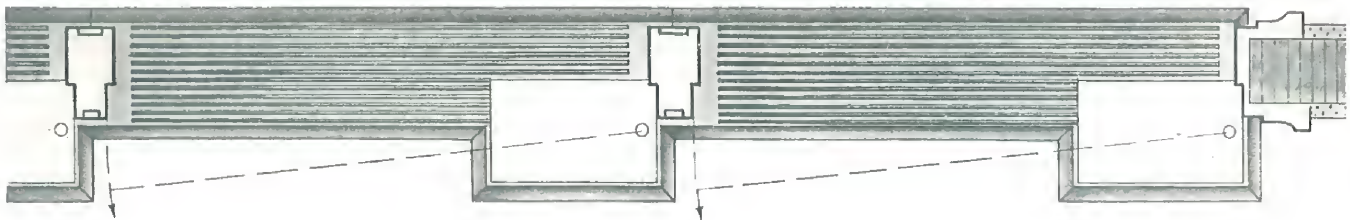
## Typical Construction of Door Saddle with cut-out for Floor Hinges

ROLLED STEEL — ARCHITECTURAL BRONZE — ARCHITECTURAL ALUMINUM

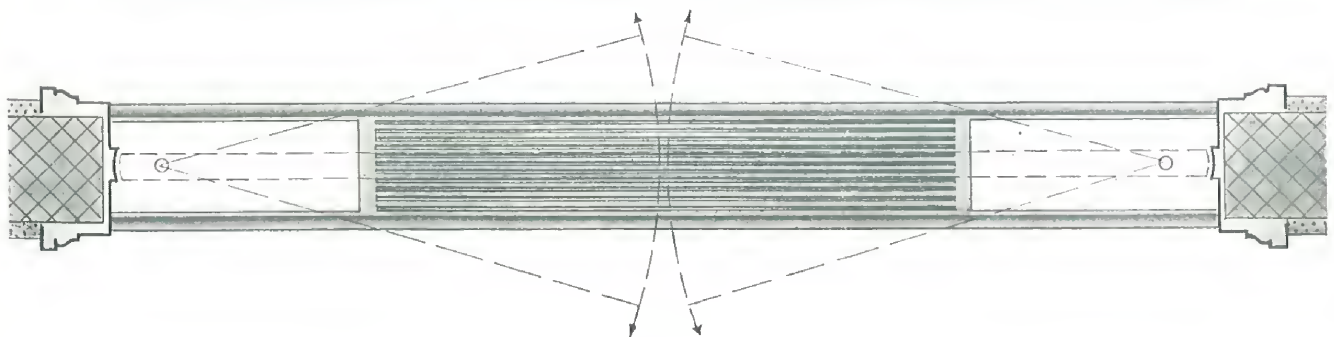


Thresholds with cut-outs for Mullions or Columns may be constructed easily and at low cost. The flat members (fluted or plain) may be cut out or notched out to fit the Mullion, Column or Jamb BEFORE assembling. Saddles constructed in this manner will fit perfectly and may be set at a minimum expense for field labor.

### Typical Construction of Door Saddle with Box cut-outs for Floor Hinges and cut-outs for Mullions or Columns



### Typical Construction of Door Saddle with straight cut-outs for Floor Hinges



NO BREAKAGE  
NO PATTERNS

NO IMPERFECTIONS  
LOW IN COST

NO WAITING

NO STRAIGHTENING  
NO ERRORS

**JULIUS BLUM & CO., INC. • CARLSTADT, N. J.**

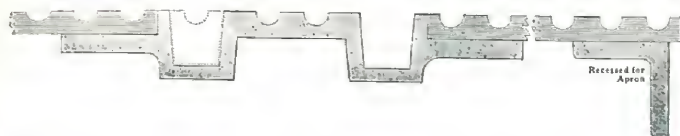
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# TYPICAL CONSTRUCTION OF ELEVATOR SADDLES

## ROLLED STEEL OR ARCHITECTURAL BRONZE

75

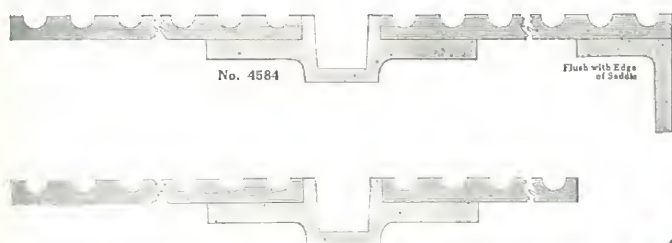
### DOUBLE GROOVE SADDLE



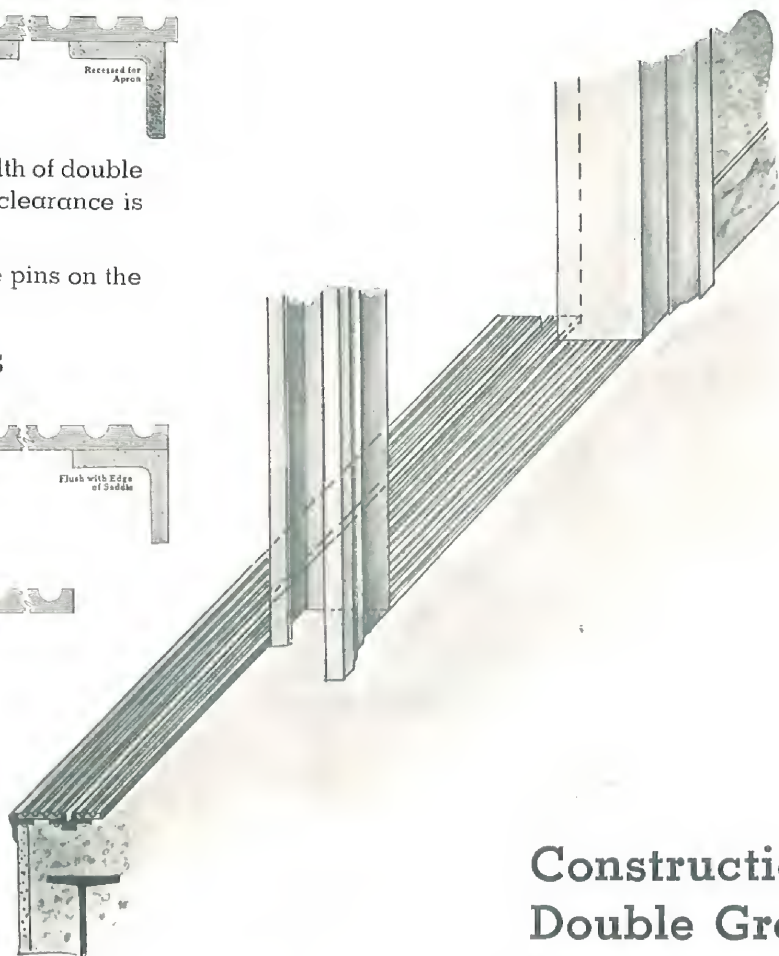
The thickness of the doors governs the width of double groove section to be used. As a rule  $\frac{1}{4}$ " clearance is allowed between doors.

If doors are slightly thicker or thinner, the pins on the bottom of door are set a trifle off center.

### SINGLE GROOVE SADDLES

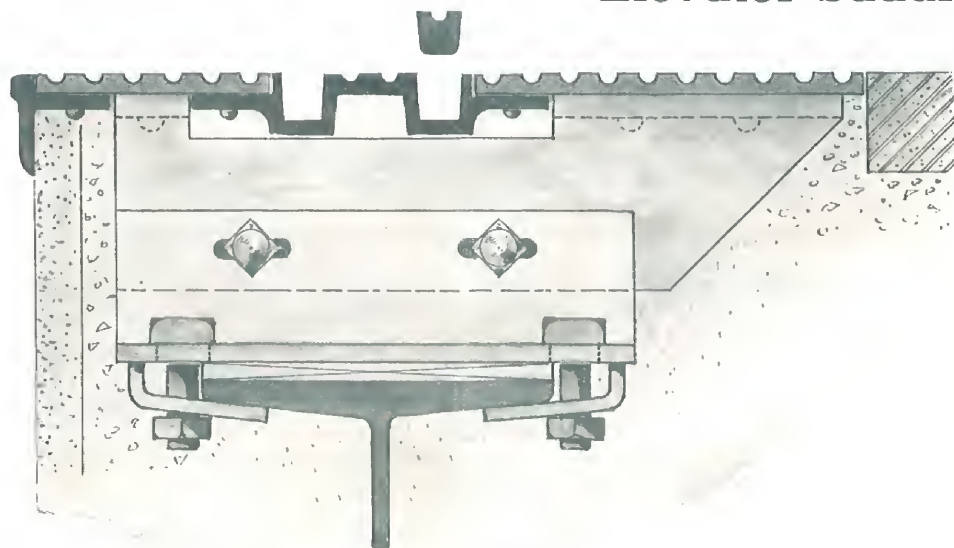


Detail of single groove elevator saddle extending behind partition.



### Construction of Double Groove Elevator Saddle

For erecting Elevator Saddles we recommend two angles, each with slotted holes, fastened in the shape of a Z to the bottom of the saddle. The legs of the bottom angles are fastened to the floor beam or channel, the saddle is then leveled between the jamb, the bolts and nuts connecting the two Z-shaped angles are tightened and the concrete flushed underneath.



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MOULDINGS—FUNCTIONAL SHAPE.

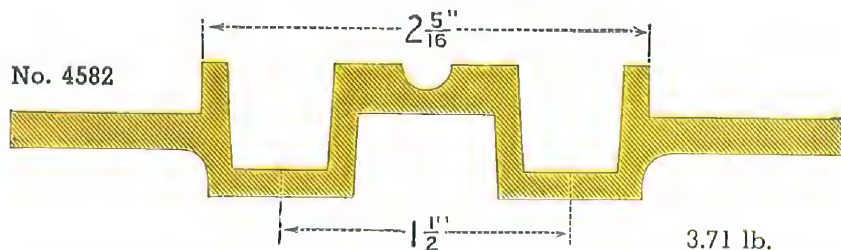
ORNAMENTS—HARDWARE

MACHINE.

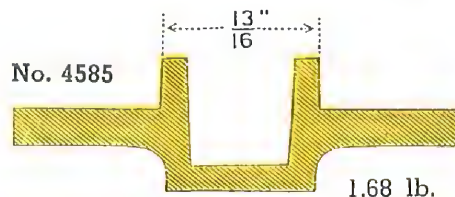


# 76 Architectural Bronze Sections for Elevator Door Saddles

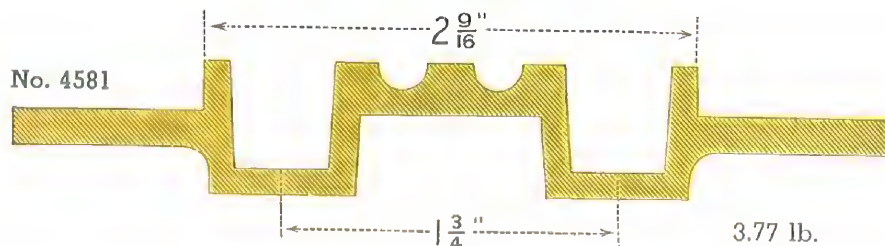
DOUBLE GROOVE SECTION  
(For 1 1/4" Thick Doors)



SINGLE GROOVE SECTION

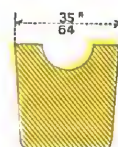


DOUBLE GROOVE SECTION  
(For 1 1/2" Thick Doors)



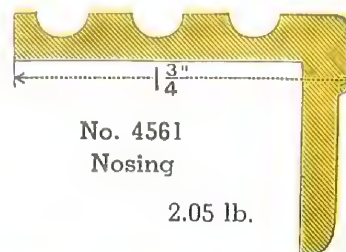
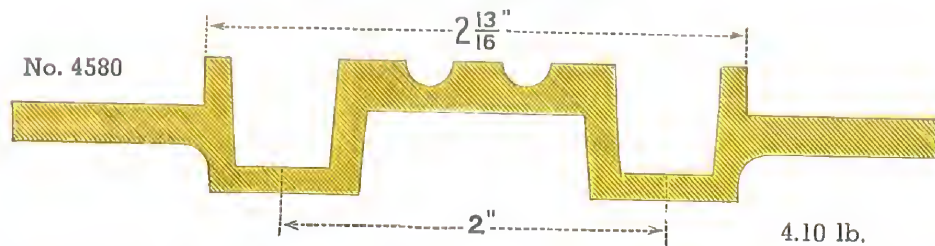
INSERT SECTION

No. 4588



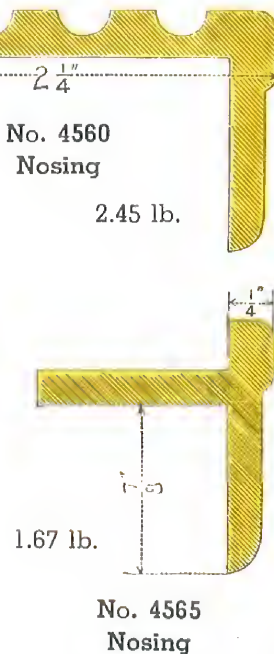
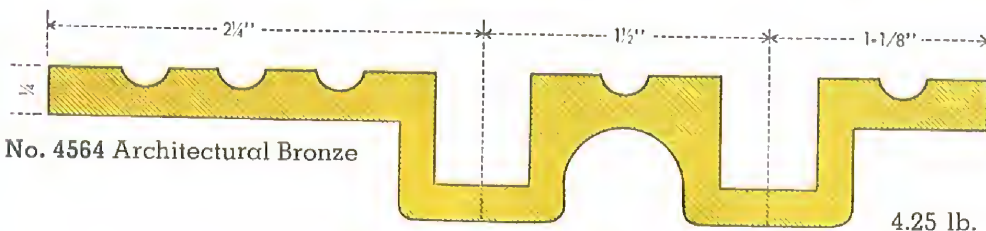
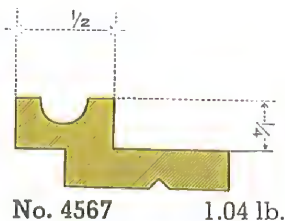
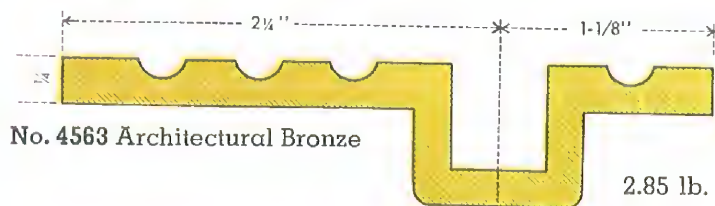
For filling up part of groove and for door stop.

DOUBLE GROOVE SECTION  
(For 1 3/4" Thick Doors)

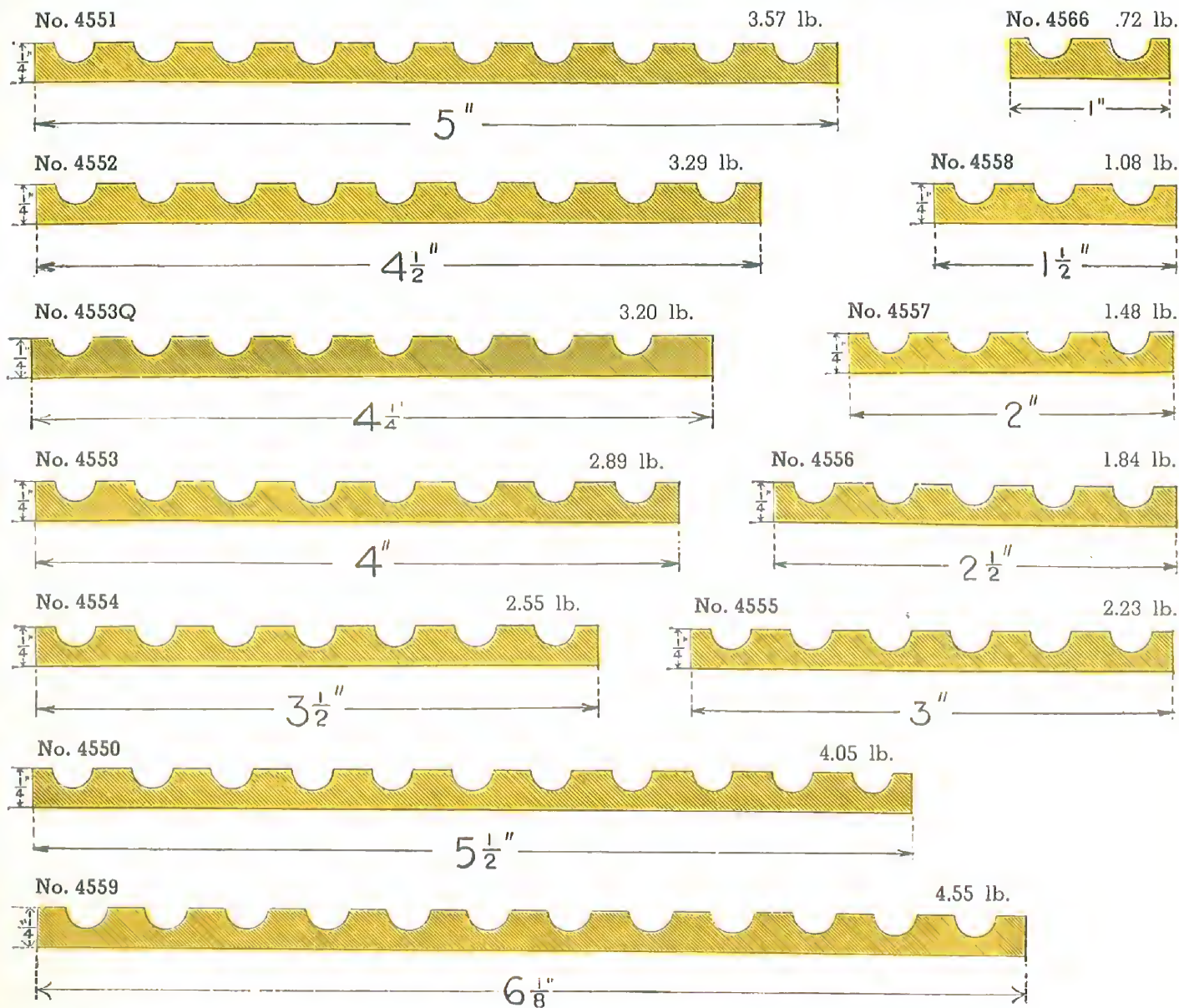


If doors are slightly thicker or thinner the guide pins in the bottom of the door are set a trifle off center. As a rule, 1/4" clearance is allowed between doors.

## Elevator Car Saddles







## Typical Construction of Architectural Bronze Elevator Saddles

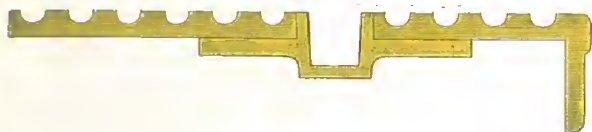
ELEVATOR CAR SADDLE



DOUBLE GROOVE SADDLE



SINGLE GROOVE SADDLE WITH NOSING



SADDLE WITHOUT GROOVES



For additional details, see page 75.

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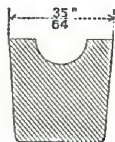
New Jersey Phone: GENEVA 8-4600 • New York Phone: OXFORD 5-2236 • Philadelphia Phone: MARKET 7-7596



# Rolled Steel Sections for Elevator Door Saddles

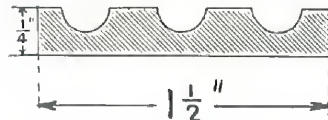
## INSERT SECTION

No. 4587

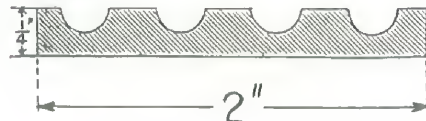


For filling up part of groove and for door stop.

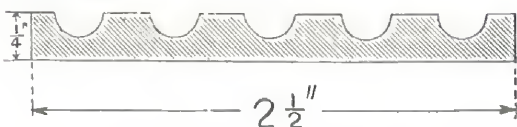
No. 4540



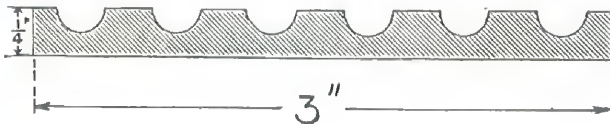
No. 4541



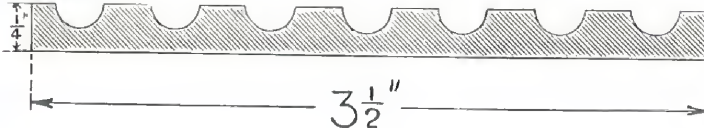
No. 4542



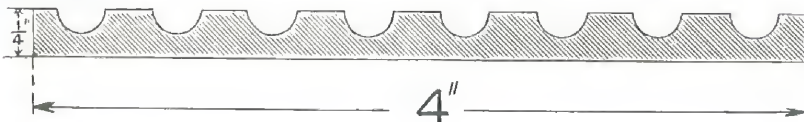
No. 4543



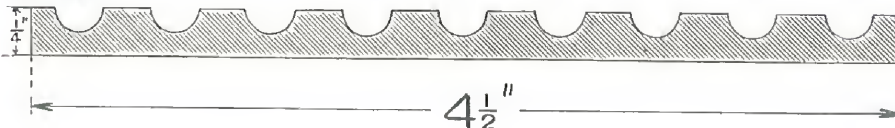
No. 4544



No. 4545

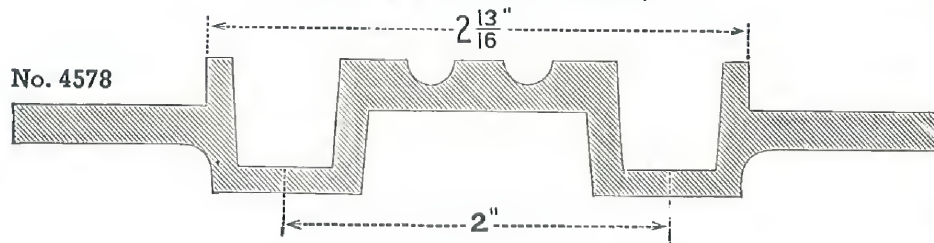


No. 4546



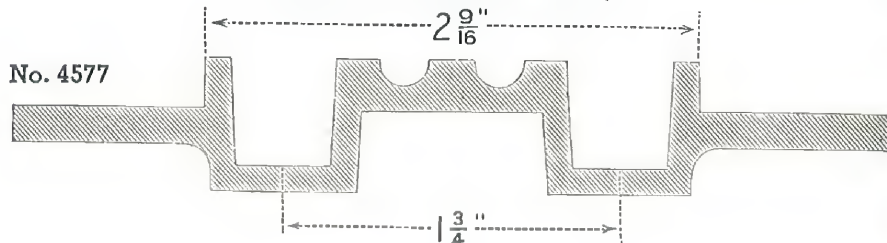
## DOUBLE GROOVE SECTIONS (FOR 1 3/4" THICK DOORS)

No. 4578



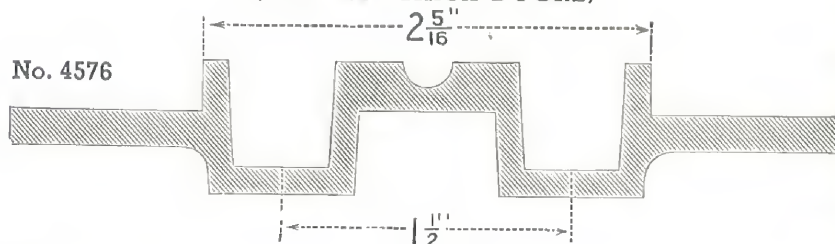
## (FOR 1 1/2" THICK DOORS)

No. 4577



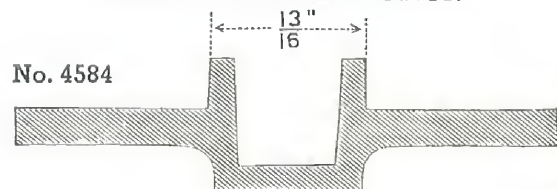
## (FOR 1 1/4" THICK DOORS)

No. 4576



## SINGLE GROOVE SECTION

No. 4584



NO BREAKAGE  
NO PATTERNS

NO MACHINING OF GROOVES  
NO IMPERFECTIONS  
NO WAITING

NO STRAIGHTENING  
NO COSTLY ERRORS

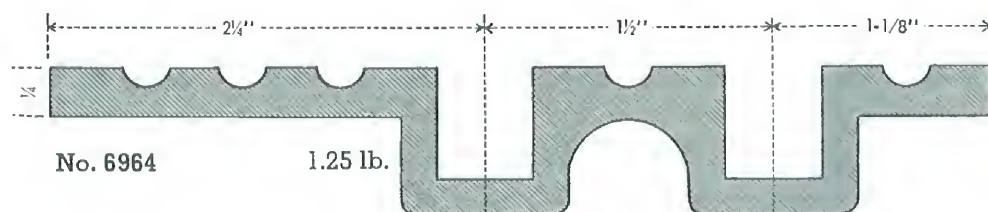
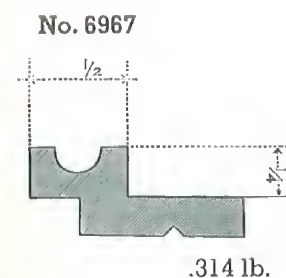
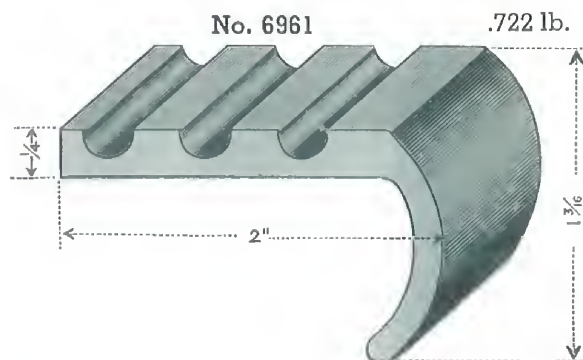
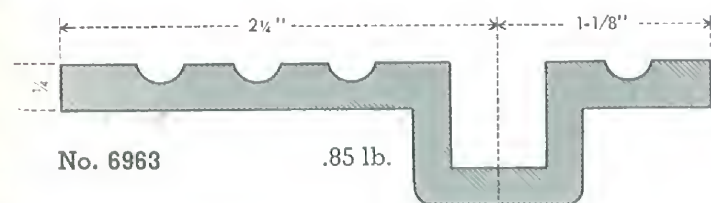
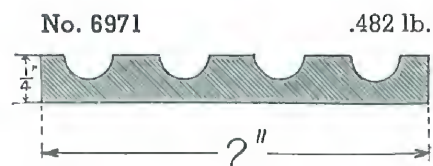
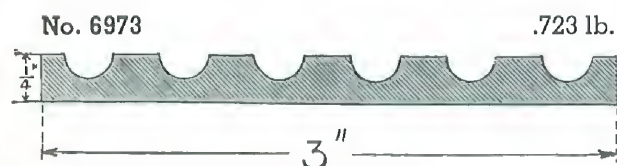
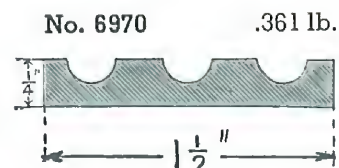
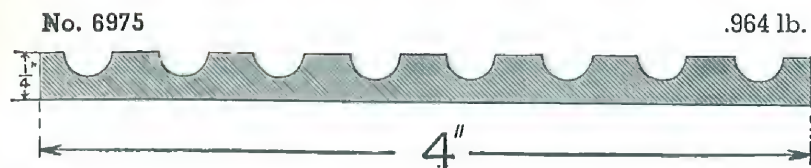
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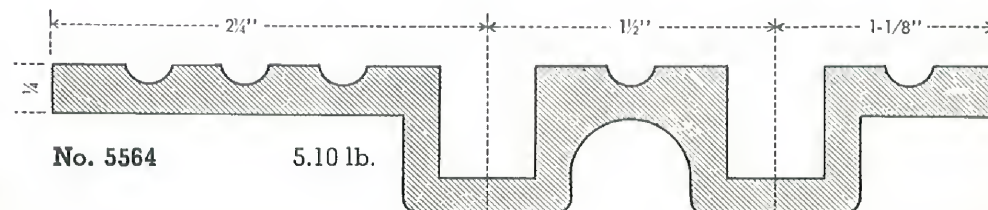
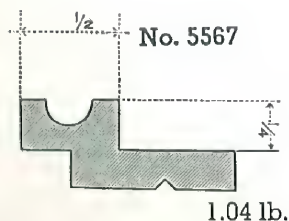
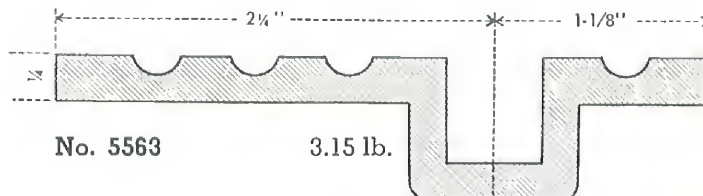
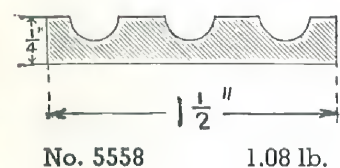
# Architectural Aluminum Sections for Door and Elevator Saddles

Alloy 6063-T5 (63S-T5)

79



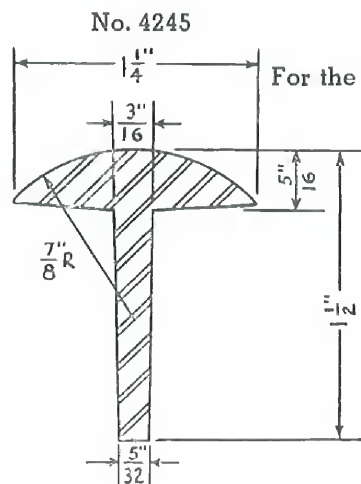
## Nickel Silver (white bronze) Elevator Saddles





## HOT ROLLED GALVANIZED STEEL CURB BAR

with anchors

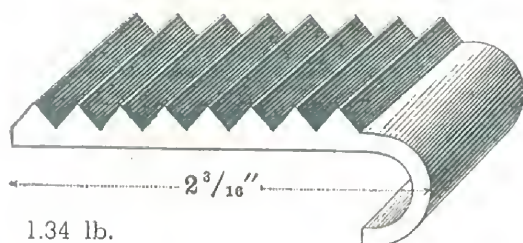


No. 4245

Carried in stock in lengths of 10 feet.

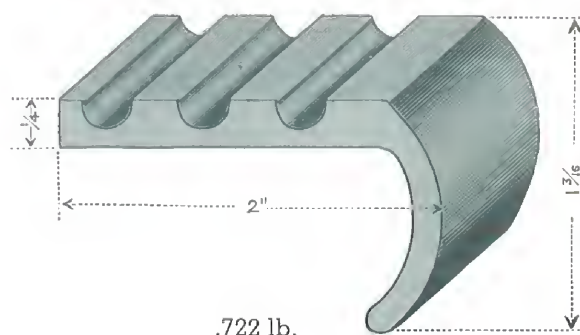
## NON-SLIP EDGE NOSING

Rolled Steel — No. 4508



Nosing No. 4508 is carried in stock in lengths of about 20 feet. Can also be furnished cut to specified lengths.

Aluminum — No. 6961

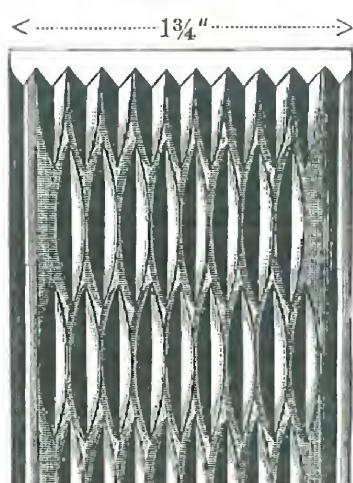


## NON-SLIP TREADS—ROLLED STEEL

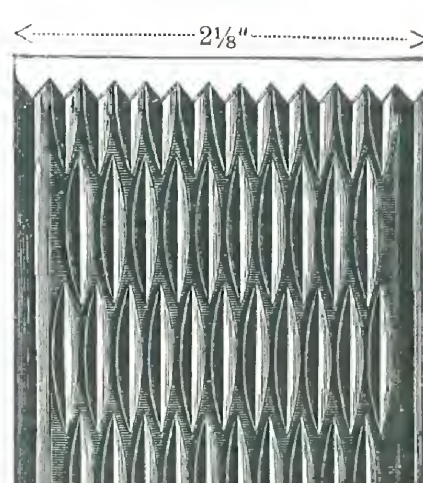
No. 4497



No. 4498



No. 4499


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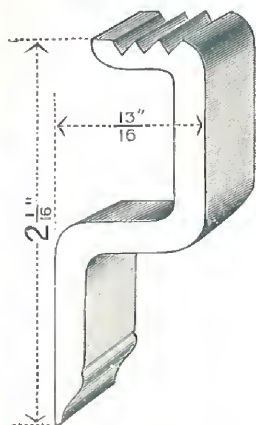
New Jersey Phone: GEneva 8-4600 • New York Phone: OXford 5-2236 • Philadelphia Phone: MArket 7-7596



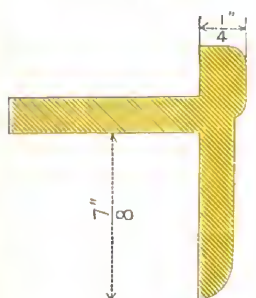
# NOSINGS FOR TREADS AND PLATFORMS

81

Rolled Steel  
No. 4231



Architectural Bronze  
No. 4565



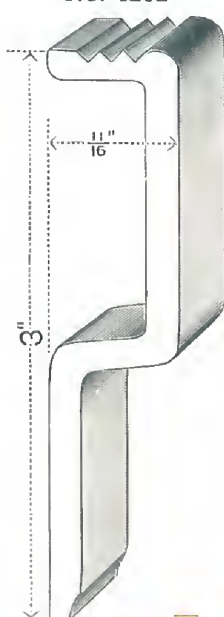
1.67 lb.



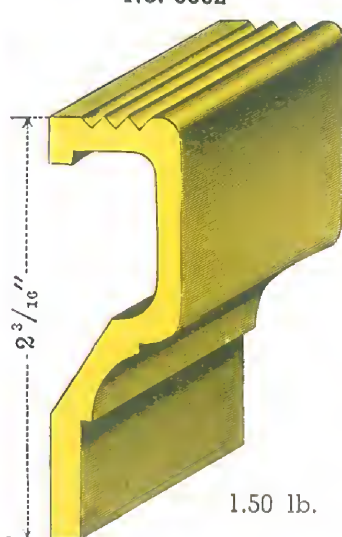
Architectural  
Bronze  
No. 4568

.70 lb.

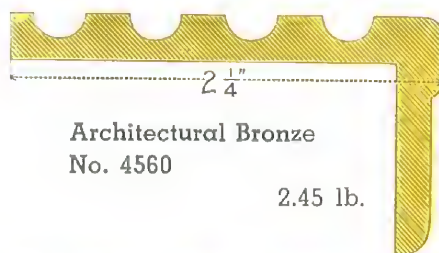
Rolled Steel  
No. 4232



Architectural Bronze  
No. 6632

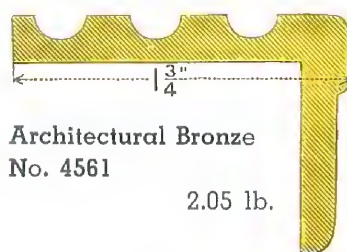


1.50 lb.



Architectural Bronze  
No. 4560

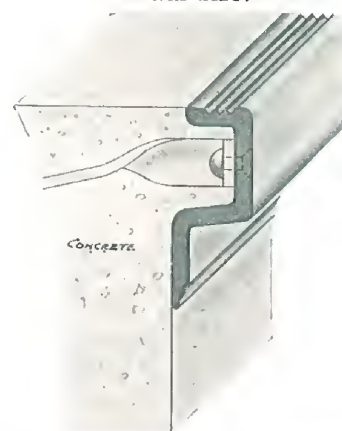
2.45 lb.



Architectural Bronze  
No. 4561

2.05 lb.

Details below are one half  
actual size.



Detail of Nosing applied to concrete  
riser and step (anchors not furnished)



Detail of Nosing and Flat Fluted Sec-  
tion applied to concrete riser and  
tread (anchors not furnished).



Detail of Flat Fluted Section with  
Nosing No. 4568.

## POLISHED ALUMINUM NOSINGS

12 ft. lengths—with screw holes

Polished Aluminum  
No. 5002-L  
1 1/8" under flange

for 1/8" material



Polished Aluminum  
No. 5702-J  
1" under flange

for 1/8" material



Polished Aluminum  
No. 5312-K  
1-1/16" under flange

for 1/8" material





# MOULDINGS- FUNCTIONAL SHAPES

ALL rolled and extruded shapes in this section are carried in stock in long random lengths. Bronze and Aluminum shapes can also be furnished cut to specified lengths. Weights are shown in pounds per lineal foot. These weights are approximate and, while they have been ascertained with care, they cannot be guaranteed. Materials sold by the pound are invoiced according to actual scale weight.

Illustrations are actual size except as noted.

Every item listed in this section is carried in stock in substantial quantities. Shipment usually can be made immediately upon receipt of order.

All bronze items are of matching color. All aluminum extrusions are alloy 6063 (63-S). This alloy is recommended for architectural work because of its bright color, ease of fabrication and corrosion resistance. It is suitable for anodizing.

Since all our bronze and aluminum sections are of uniform composition, the chance of accidental mis-matching of alloys or colors through shipping errors is eliminated.

## Subjects covered in this section:

Rolled Steel	Page No.	Architectural Bronze	Page No.
Channel Stringer Mouldings .....	95	Mouldings and Glass Stops .....	84
Plate Stringer Mouldings .....	93, 96	Door Edgings .....	84, 85
Wall Stringer Mouldings .....	96	Nosings .....	84
Built-up Cornice Sections .....	97, 98	Tie Band Strip .....	84
Glass Stops and Window Shapes .....	90, 91	<b>Aluminum</b>	
Skylight Bars .....	99	Mouldings and Glass Stops .....	83
Loafers Rail .....	101	Door Edgings .....	88
Ornamented Mouldings .....	100	Nosings .....	88
Miscellaneous Mouldings .....	98, 99, 101	Window Sills .....	86, 87
Light Gauge Mouldings .....	99	Gravel Stops .....	87

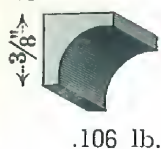
Also see sections on "Railings," "Saddles-Nosings," "Tubing, Shapes, Bars"

# Aluminum Mouldings and Glass Framing Sections

83

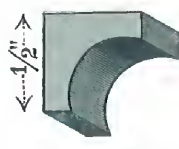
Alloy 6063 (63S)—Suitable for Alumiliting

No. 6951



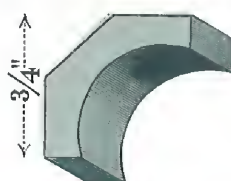
.106 lb.

No. 6952



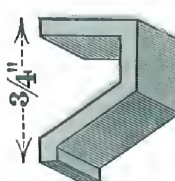
.166 lb.

No. 6955



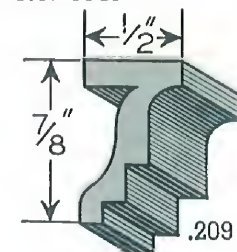
.260 lb.

No. 6936



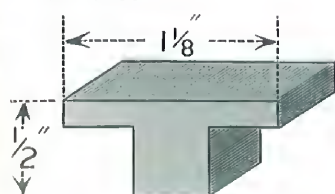
.168 lb.

No. 6946



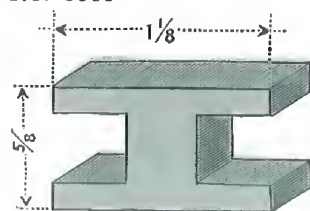
.209 lb.

No. 6958



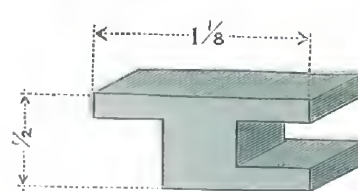
.338 lb.

No. 6960



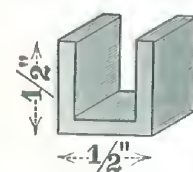
.507 lb.

No. 6959



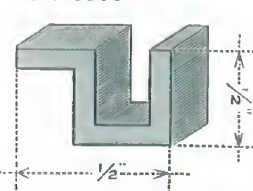
.394 lb.

No. 6956



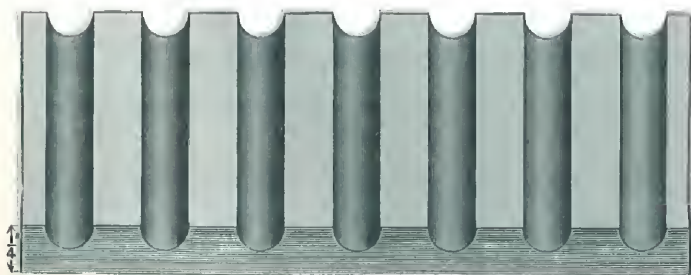
.148 lb.

No. 6953



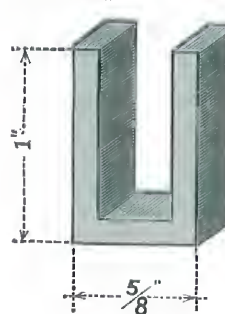
.183 lb.

## FLAT FLUTED SECTIONS



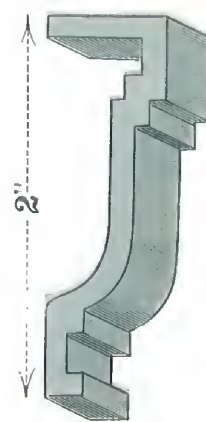
No. 6970—1 1/2" wide .361 lb. No. 6973—3" wide .723 lb.  
No. 6971—2" wide .482 lb. No. 6975—4" wide .964 lb.

No. 6954



.356 lb.

No. 6938

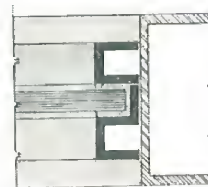


.439 lb.

Channel  
No. 6956 used  
with 1 1/8" x 1 1/8" x 1/8"  
Aluminum Tee



Channel  
No. 6956 used  
with section  
No. 6953



Sections 6958, 6959 and 6960 used with 1 1/8" x 1/8" Aluminum Flat  
FOR OTHER ALUMINUM BARS AND SHAPES, SEE PAGE 11

MOULDINGS—FUNCTIONAL SHAPE.

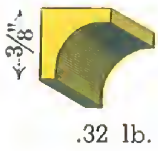
ORNAMENTS—HARDWARE

MACHINE.

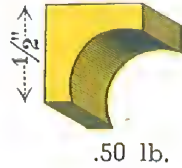


## ARCHITECTURAL BRONZE MOULDINGS

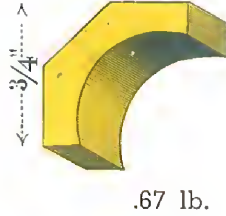
No. 6101



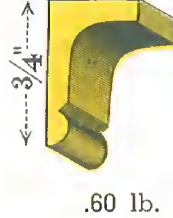
No. 6102



No. 6105



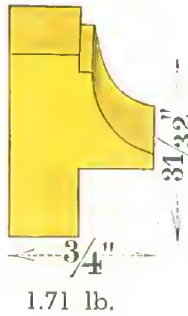
No. 6121



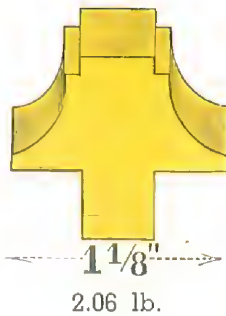
No. 6130



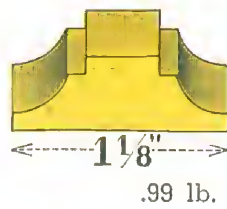
No. 6620



No. 6621



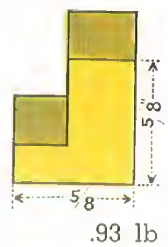
No. 6474



No. 6473

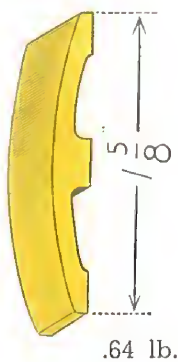


No. 6470

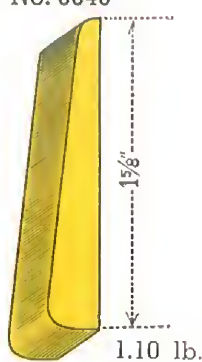


Sections 6473, 6474, 6620 and 6621  
form perfect Mitres.

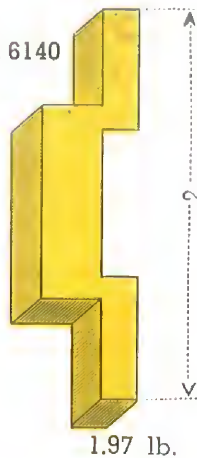
No. 6647



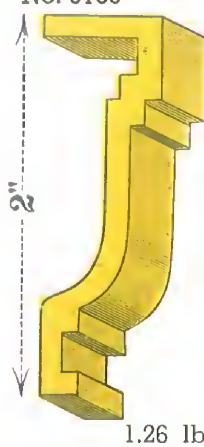
No. 6648



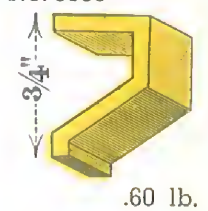
No. 6140



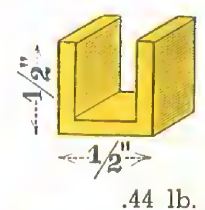
No. 6138



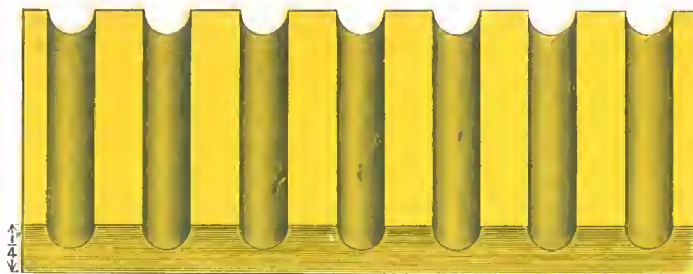
No. 6136



No. 6139



## FLAT FLUTED SECTIONS

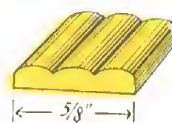
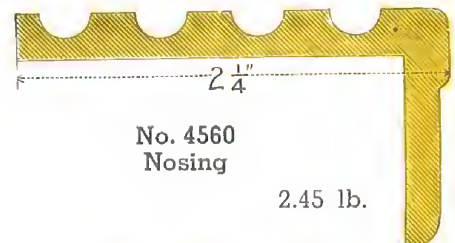
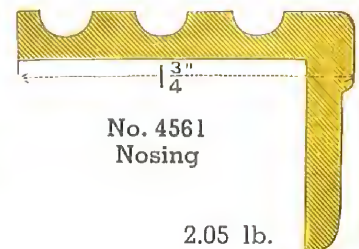


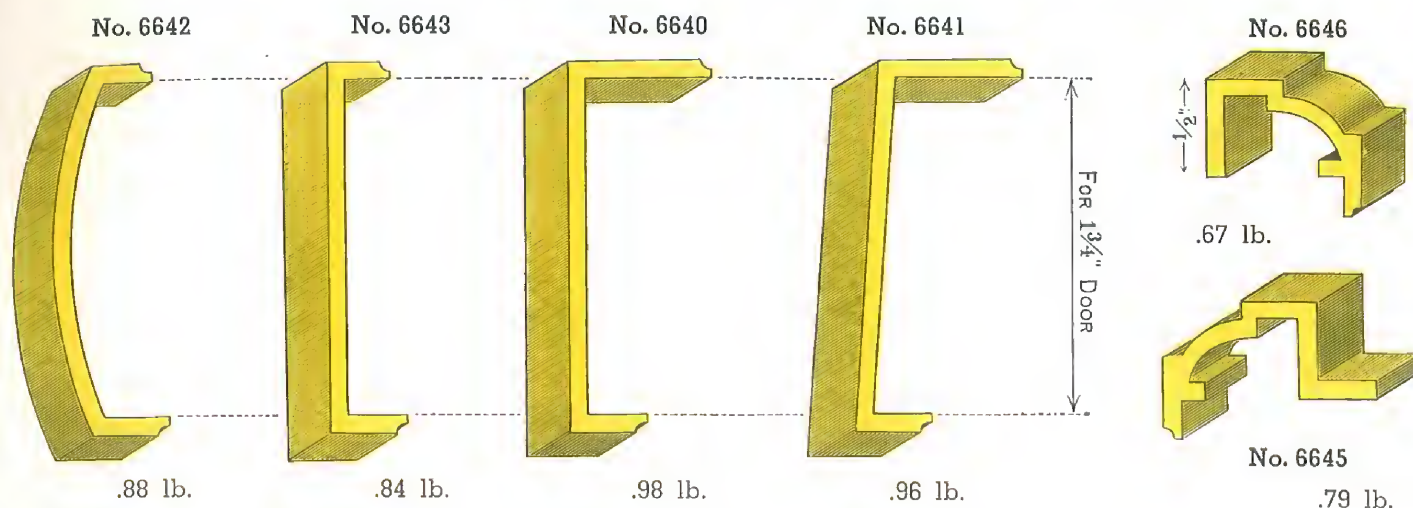
No. 4556-1" wide	No. 4555-3" wide	No. 4552-4 1/2" wide
No. 4558-1 1/2" "	No. 4554-3 1/2" "	No. 4551-5" "
No. 4557-2" "	No. 4553-4" "	No. 4550-5 1/2" "
No. 4556-2 1/2" "	No. 4553-Q-4 1/4" "	No. 4559-6 1/8" "

Flat Fluted Sections may be used for pilasters  
or mullions or as decorative trim.

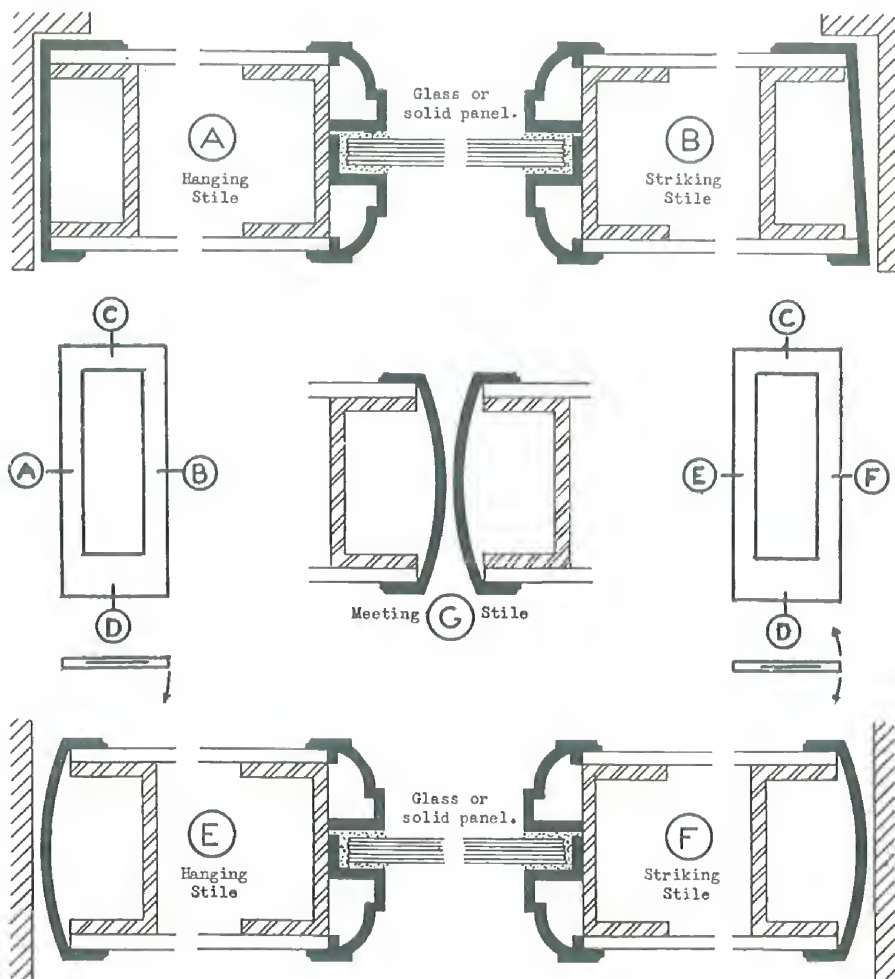
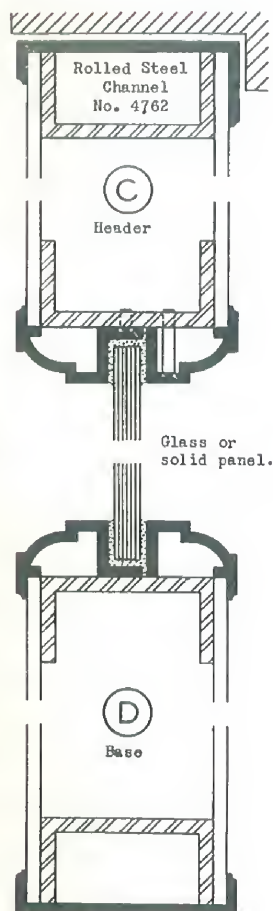
For full size details and weights, see page 77.

No. 6108

No. 4560  
NosingNo. 4561  
Nosing



Architectural Bronze Door Edgings may be used for kalamein, wood or tubular doors or for doors constructed of steel channels faced with metal, plastic or plywood as shown in the details below.



Construction details are not actual size.

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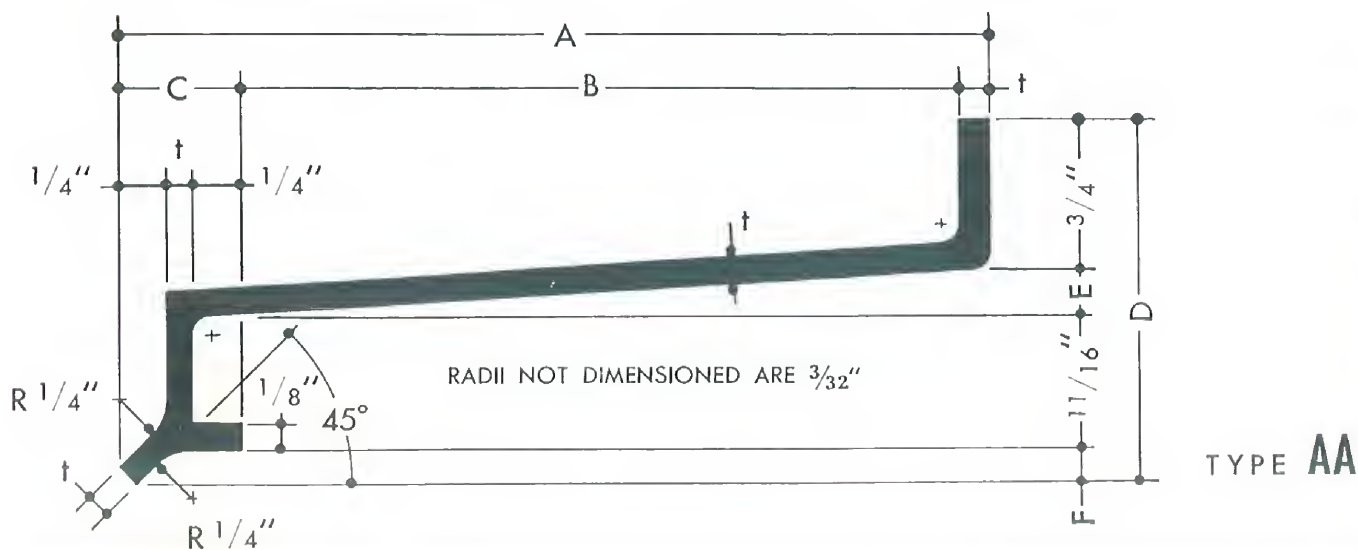
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## ALCOA ALUMINUM WINDOW SILLS

Alloy 6063-T42 (63S-T42)

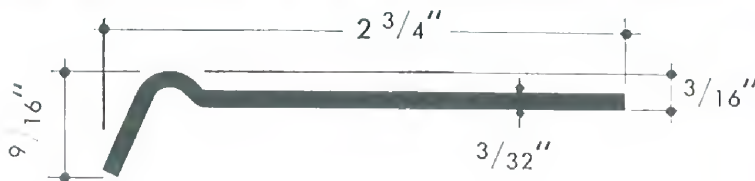
20 foot lengths



Shape number	A	B	C	D	E	F	t	Weight per foot	Shape number	A	B	C	D	E	F	t	Weight per foot
54684	$3\frac{1}{2}$ "	$2\frac{3}{4}$ "	$\frac{5}{8}$ "	$1\frac{13}{16}$ "	$\frac{3}{16}$ "	$\frac{3}{16}$ "	$\frac{1}{8}$ "	.767	54689	6"	$5\frac{1}{4}$ "	$\frac{5}{8}$ "	$1\frac{31}{32}$ "	$\frac{11}{32}$ "	$\frac{3}{16}$ "	$\frac{1}{8}$ "	1.141
54685	4"	$3\frac{1}{4}$ "	$\frac{5}{8}$ "	$1\frac{27}{32}$ "	$\frac{7}{32}$ "	$\frac{3}{16}$ "	$\frac{1}{8}$ "	.842	54690	$6\frac{9}{16}$ "	$5\frac{3}{4}$ "	$\frac{21}{32}$ "	2"	$\frac{3}{8}$ "	$\frac{3}{16}$ "	$\frac{5}{32}$ "	1.529
54686	$4\frac{1}{2}$ "	$3\frac{3}{4}$ "	$\frac{5}{8}$ "	$1\frac{7}{8}$ "	$\frac{1}{4}$ "	$\frac{3}{16}$ "	$\frac{1}{8}$ "	.919	54691	$7\frac{9}{16}$ "	$6\frac{3}{4}$ "	$\frac{21}{32}$ "	$2\frac{1}{16}$ "	$\frac{7}{16}$ "	$\frac{3}{16}$ "	$\frac{5}{32}$ "	1.716
54687	5"	$4\frac{1}{4}$ "	$\frac{5}{8}$ "	$1\frac{29}{32}$ "	$\frac{9}{32}$ "	$\frac{3}{16}$ "	$\frac{1}{8}$ "	.994	54692	$8\frac{1}{8}$ "	$7\frac{1}{4}$ "	$\frac{11}{16}$ "	$2\frac{5}{32}$ "	$\frac{15}{32}$ "	$\frac{1}{4}$ "	$\frac{3}{16}$ "	2.189
54688	$5\frac{1}{2}$ "	$4\frac{3}{4}$ "	$\frac{5}{8}$ "	$1\frac{15}{16}$ "	$\frac{5}{16}$ "	$\frac{3}{16}$ "	$\frac{1}{8}$ "	1.067	54693	$9\frac{1}{8}$ "	$8\frac{1}{4}$ "	$\frac{11}{16}$ "	$2\frac{7}{32}$ "	$\frac{17}{32}$ "	$\frac{1}{4}$ "	$\frac{3}{16}$ "	2.414

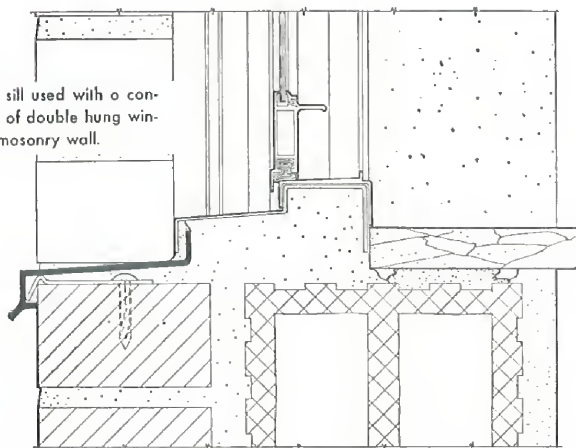
## ANCHOR CLIP FOR "AA" SILL

Part No. SA-100—2" long

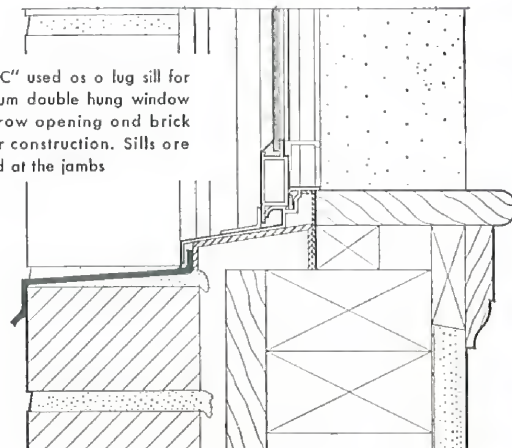


## Typical Details of Window Sill Construction

TYPE "AA" sill used with a continuous line of double hung windows in a masonry wall.



TYPE "C" used as a lug sill for aluminum double hung window in narrow opening and brick veneer construction. Sills are caulked at the jambs.



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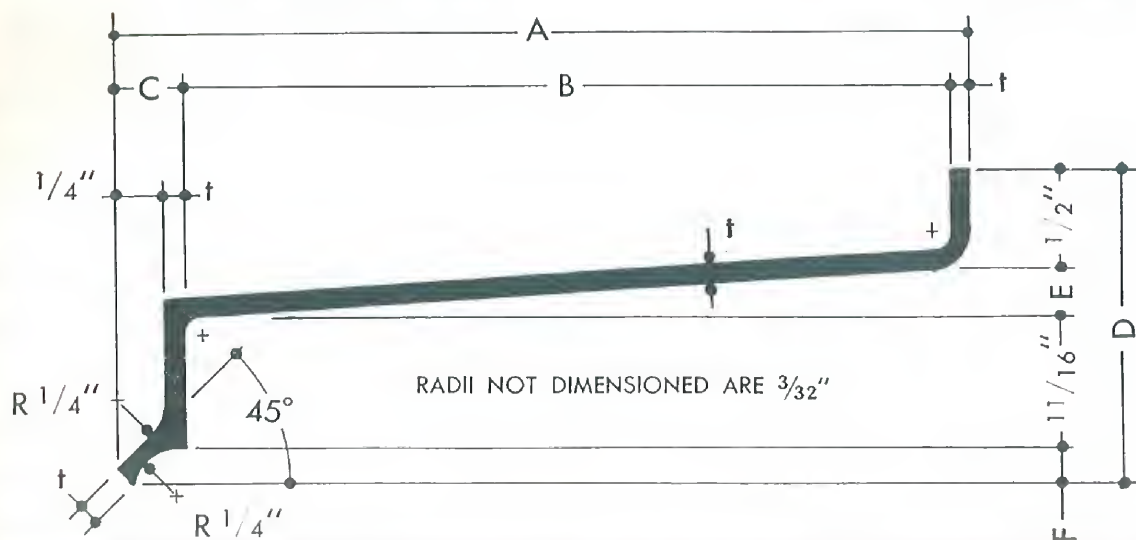
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# ALCOA ALUMINUM WINDOW SILLS

Alloy 6063-T42 (63S-T42)

20 foot lengths

87



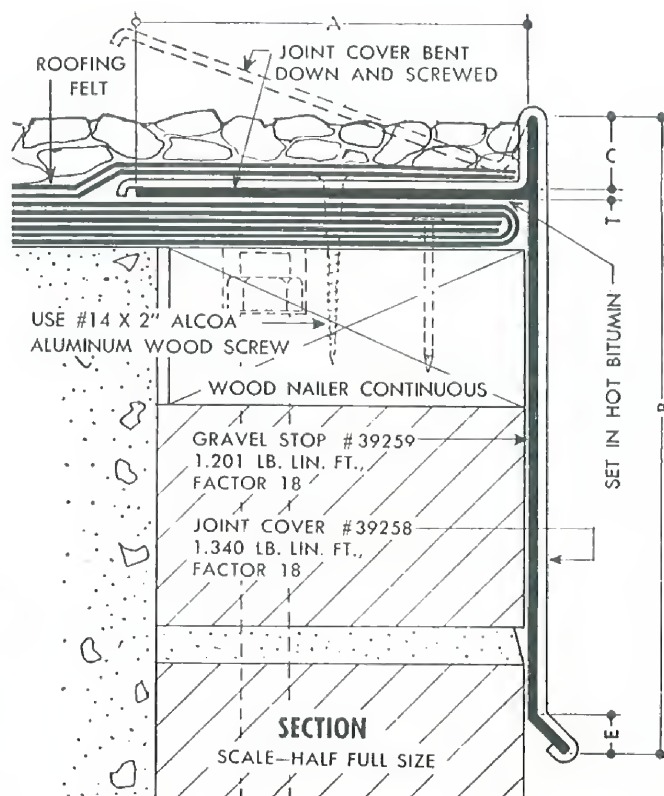
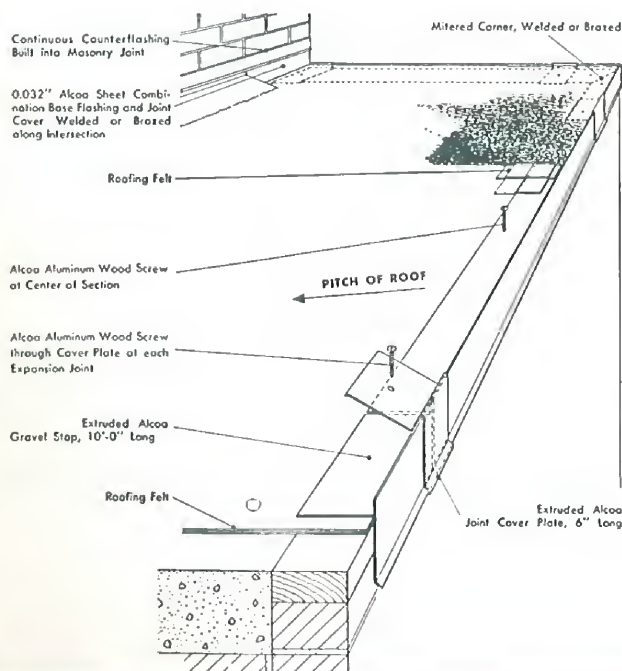
TYPE C

Shape number	A	B	C	D	E	F	t	Weight per foot	Shape number	A	B	C	D	E	F	t	Weight per foot
37734	3 <sup>7</sup> / <sub>16</sub> "	3"	1 <sup>1</sup> / <sub>32</sub> "	1 <sup>1</sup> / <sub>16</sub> "	3 <sup>1</sup> / <sub>16</sub> "	3 <sup>1</sup> / <sub>16</sub> "	3 <sup>3</sup> / <sub>32</sub> "	.524	37737	4 <sup>15</sup> / <sub>16</sub> "	4 <sup>1</sup> / <sub>2</sub> "	1 <sup>1</sup> / <sub>32</sub> "	1 <sup>23</sup> / <sub>32</sub> "	3 <sup>1</sup> / <sub>32</sub> "	3 <sup>1</sup> / <sub>16</sub> "	3 <sup>3</sup> / <sub>32</sub> "	.691
37735	3 <sup>15</sup> / <sub>16</sub> "	3 <sup>1</sup> / <sub>2</sub> "	1 <sup>1</sup> / <sub>32</sub> "	1 <sup>19</sup> / <sub>32</sub> "	7 <sup>1</sup> / <sub>32</sub> "	3 <sup>1</sup> / <sub>16</sub> "	3 <sup>3</sup> / <sub>32</sub> "	.574	37738	5 <sup>7</sup> / <sub>16</sub> "	5"	1 <sup>1</sup> / <sub>32</sub> "	1 <sup>11</sup> / <sub>16</sub> "	5 <sup>1</sup> / <sub>16</sub> "	3 <sup>1</sup> / <sub>16</sub> "	3 <sup>3</sup> / <sub>32</sub> "	.746
37736	4 <sup>7</sup> / <sub>16</sub> "	4"	1 <sup>1</sup> / <sub>32</sub> "	1 <sup>5</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>4</sub> "	3 <sup>1</sup> / <sub>16</sub> "	3 <sup>3</sup> / <sub>32</sub> "	.636	37739	5 <sup>15</sup> / <sub>16</sub> "	5 <sup>1</sup> / <sub>2</sub> "	1 <sup>1</sup> / <sub>32</sub> "	1 <sup>23</sup> / <sub>32</sub> "	1 <sup>1</sup> / <sub>32</sub> "	3 <sup>1</sup> / <sub>16</sub> "	3 <sup>3</sup> / <sub>32</sub> "	.804

# ALCOA ALUMINUM GRAVEL STOPS

Alloy 6063-T42 (63S-T42) FOR BONDED ROOFS

9'11 1/2" lengths



die numbers	dimensions in inches					Weight per foot
Gravel Stop	A	B	C	E	T	
42058	4	5	1	7 <sup>1</sup> / <sub>16</sub>	3 <sup>3</sup> / <sub>32</sub>	1.032
42059	4	3 <sup>1</sup> / <sub>2</sub>	5 <sup>5</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>32</sub>	3 <sup>3</sup> / <sub>32</sub>	.856
39259	4	6 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>32</sub>	1.201

ORNAMENTS—HARDWARE

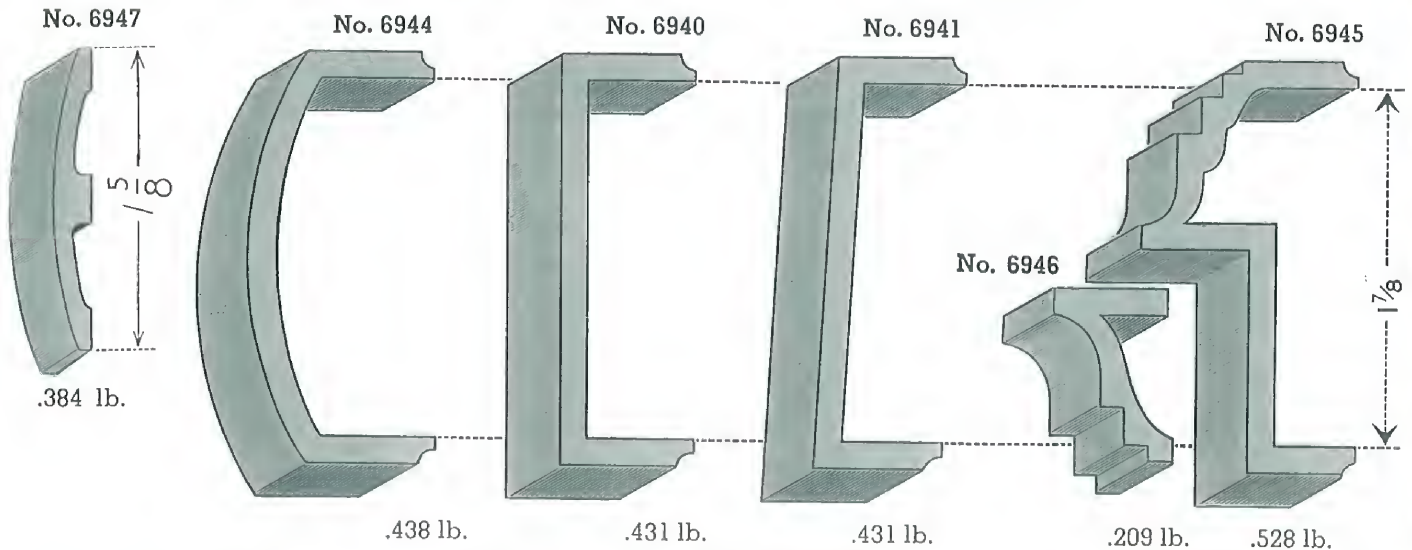
MACHINE.



## ALUMINUM DOOR EDGINGS

Alloy 6063-T5 (63S-T5)

16 foot lengths



For assembly details, see page 85

## POLISHED ALUMINUM NOSINGS

for counters, tables, display shelves, etc.

No. 5312-K

1 1/8" under flange,  
for 1/8" material

No. 5002-L

1 1/8" under flange  
for 1/8" material

These nosings are furnished with exposed surfaces polished to a high luster finish.

Screw holes and wood screws are provided.

Carried in stock in 12 ft. lengths.

A wide variety of polished nosings, edgings and mouldings can be supplied on short notice.

Write for special catalogue: "Wooster Mouldings."

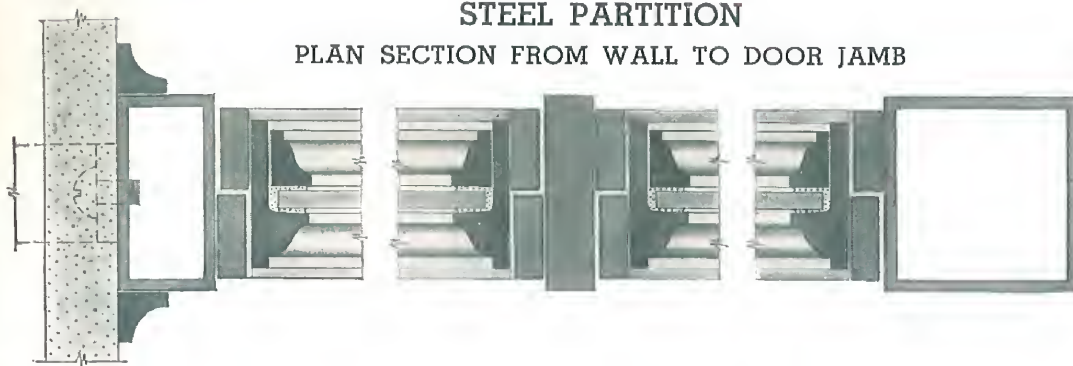
No. 4020 — 5/8" wide  
for 1/8" materialNo. 7010-E  
3/4" under flangeNo. 7012-H  
1 1/8" under flange  
No. 7012-N  
1 1/4" under flangeNo. 7011-S  
1 1/2" under flange

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## STEEL PARTITION

PLAN SECTION FROM WALL TO DOOR JAMB



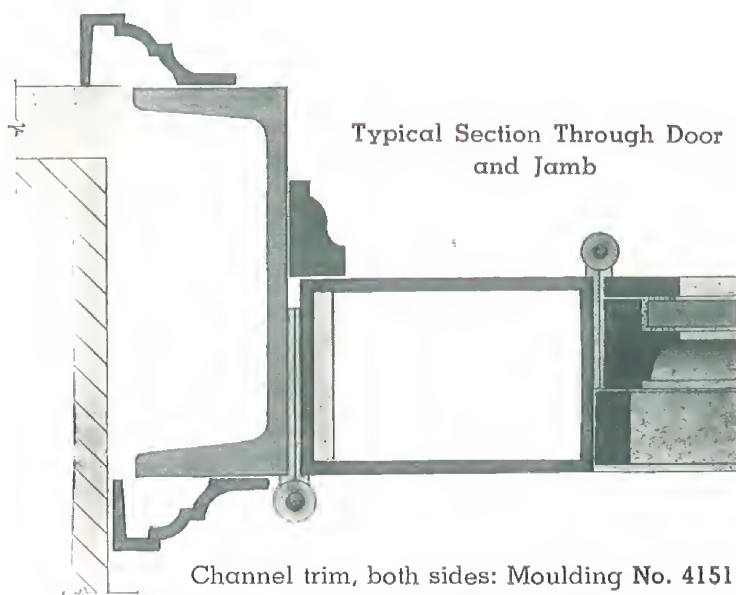
Plaster Stop:  
Moulding No. 4102  
Glass Frame:  
Mouldings No. 4617  
and No. 4258

## STEEL DOORS

Illustrations show the application of rolled steel mouldings to steel doors and partitions. For full size details of mouldings, see pages 90, 91 and 93.

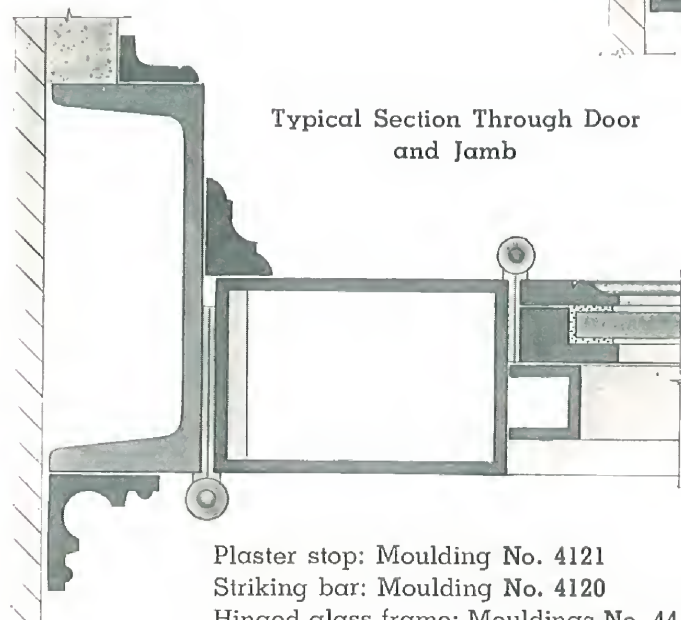
For information on square and rectangular steel tubing, see page 6.

For information on locks, handles, butts, hinges, etc., see pages 104 and 105.



Typical Section Through Door and Jamb

Channel trim, both sides: Moulding No. 4151  
Striking bar: Moulding No. 4256  
Hinged glass frame: Moulding No. 4620



Typical Section Through Door and Jamb

Plaster stop: Moulding No. 4121  
Striking bar: Moulding No. 4120  
Hinged glass frame: Mouldings No. 4450 and No. 4460  
Grille frame: Channel No. 4732

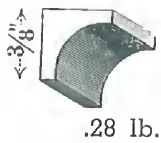
Details are ONE-HALF actual size

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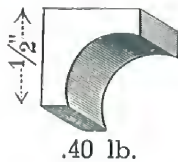
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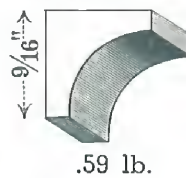
No. 4101



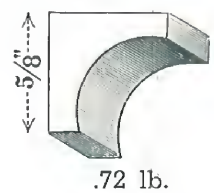
No. 4102



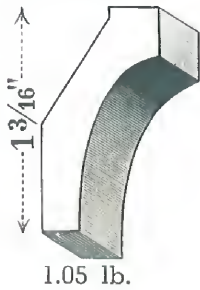
No. 4103



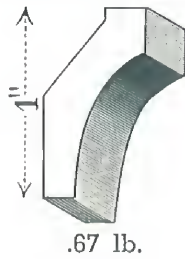
No. 4110



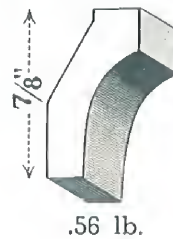
No. 4108



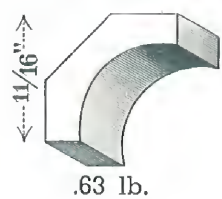
No. 4107



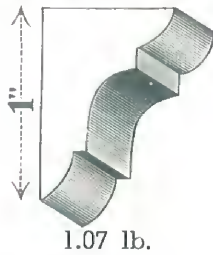
No. 4106



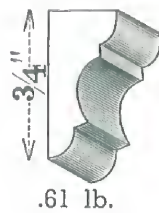
No. 4104



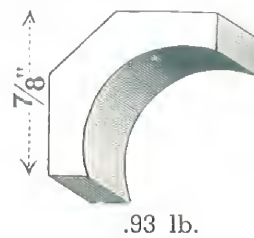
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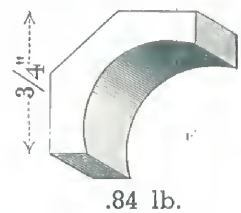
No. 4480



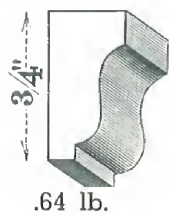
No. 4109



No. 4105



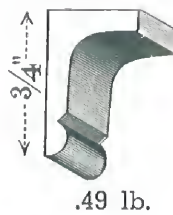
No. 4257



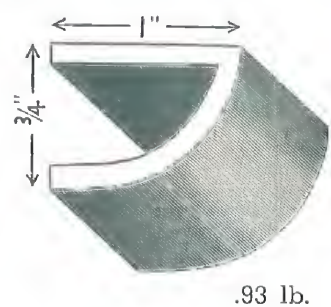
No. 4258



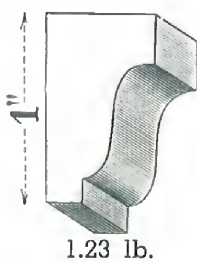
No. 4121



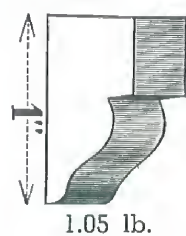
No. 4487



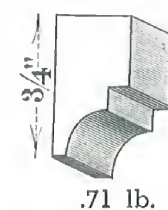
No. 4256



No. 4451



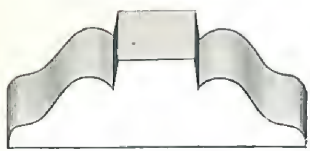
No. 4473



No. 4123

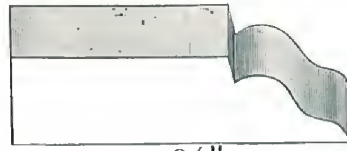


No. 4471



1 1/2" 1.41 lb.

No. 4461



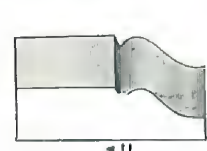
1 3/4" 2.17 lb.

No. 4451



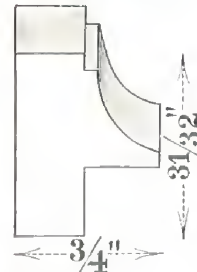
1" 1.05 lb.

No. 4450



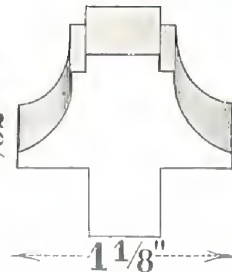
1" .70 lb.

No. 4620



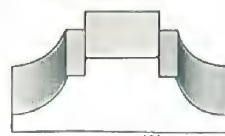
3/4" 1.63 lb.

No. 4621



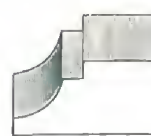
1 1/8" 1.96 lb.

No. 4474



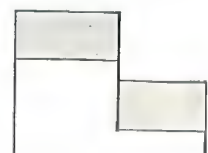
1 1/8" .96 lb.

No. 4473



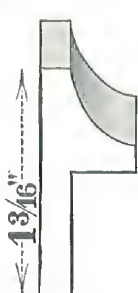
3/4" .71 lb.

No. 4460



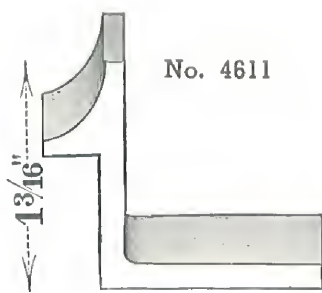
1" 1.36 lb.

No. 4601



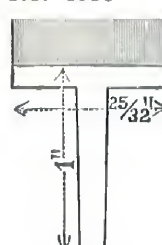
1 3/16" .81 lb.

No. 4611



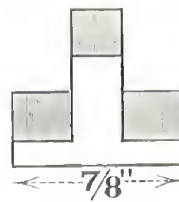
1 3/16" 1.15 lb.

No. 4619



25/32" .65 lb.

No. 4618



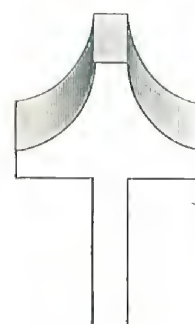
7/8" .75 lb.

No. 4470



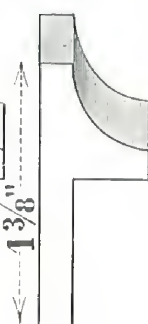
3/4" .95 lb.

No. 4602



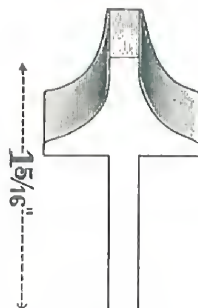
1.47 lb.

No. 4603



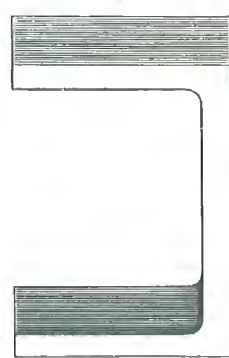
1 3/8" 1.13 lb.

No. 4606



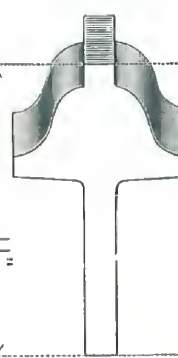
1 5/16" .97 lb.

No. 4615



2.05 lb.

No. 4616



1.60 lb.

No. 4617



1.36 lb.



Plate Stringer with Moulding  
No. 4153 top and bottom.

Panel: Moulding No. 4257  
Plaster soffit stop:  
Moulding No. 4471

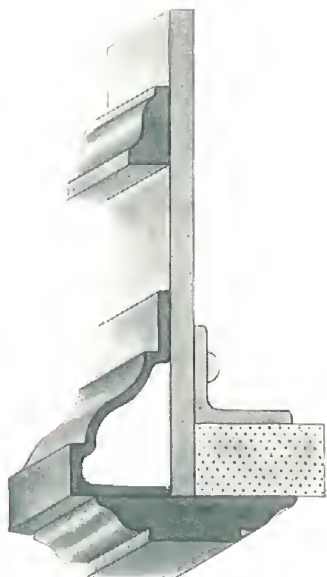


Plate Stringer with Moulding  
No. 4172

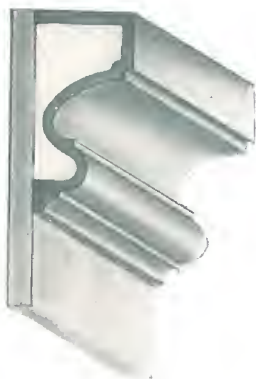


Plate Wall Stringer with  
Moulding No. 4226

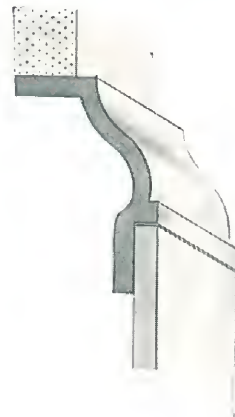


Plate Stringer with Moulding  
No. 4152

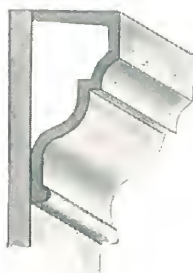


Plate Wall Stringer with  
Moulding No. 4310

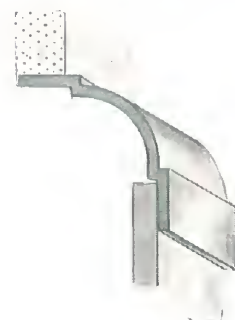
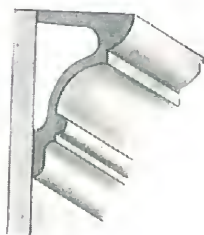
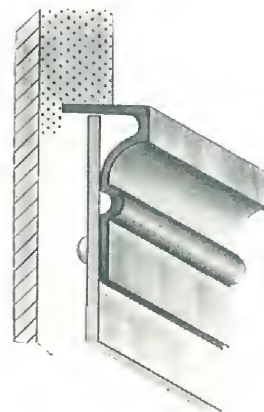


Plate Stringer with Moulding  
No. 4154



Wainscoting or Plate Wall  
Stringer with Moulding No. 4280



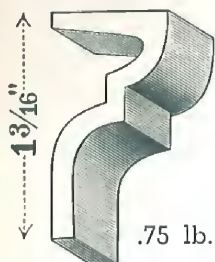
Illustrations show the applications of rolled steel Mouldings for stringers and facias. For full size details of Mouldings see the succeeding pages.

Details are ONE-HALF actual size

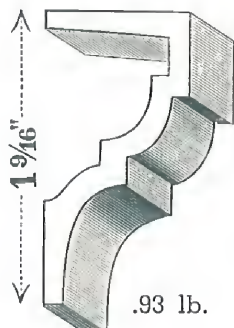
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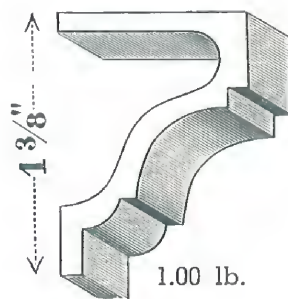
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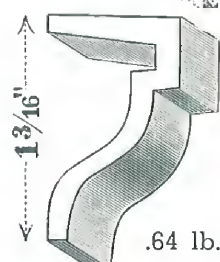
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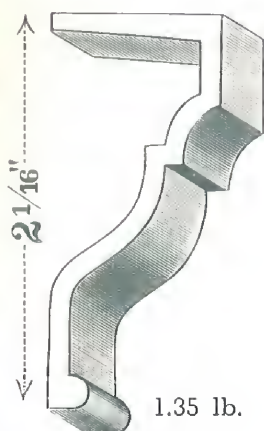
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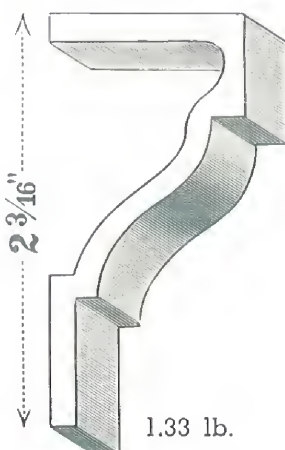
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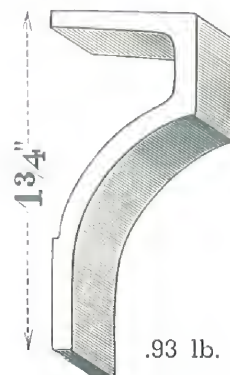
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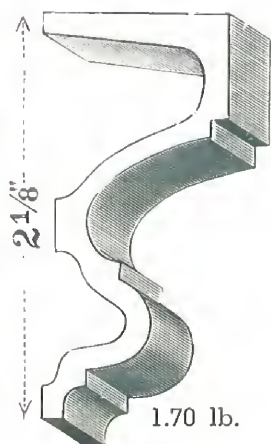
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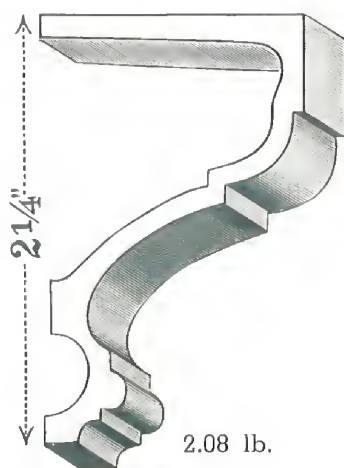
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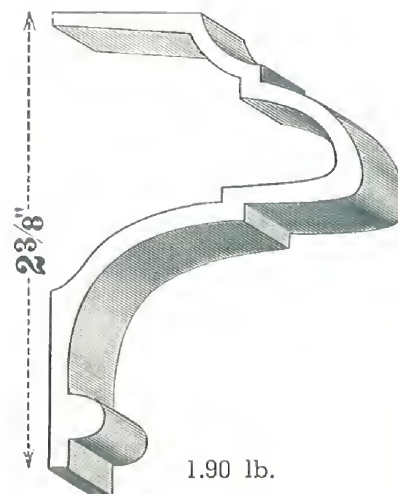
No. 4172



No. 4171



No. 4279

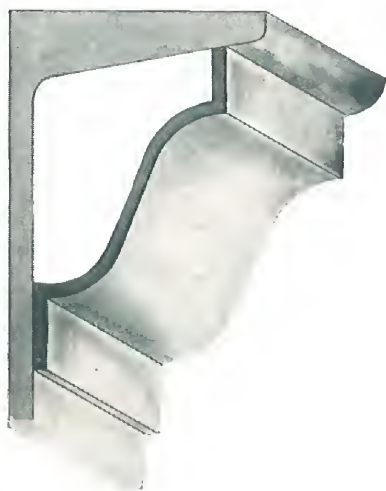
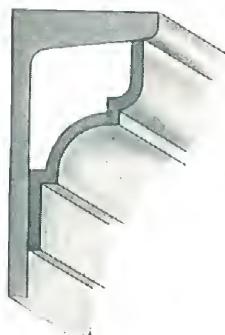
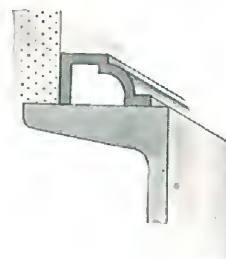


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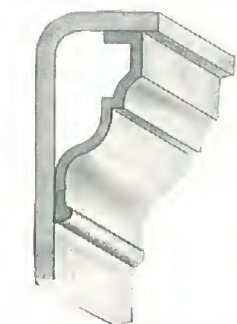
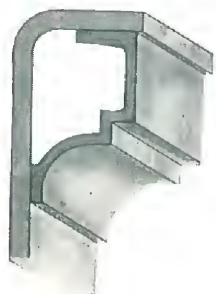
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## STAIR STRINGER AND FACIA CONSTRUCTION

Channel Stringer with Moulding  
No. 4305 or No. 4356Channel Stringer with  
Moulding No. 4303Channel Wall Stringer with  
Moulding No. 4130

## BUILT-UP CORNICES

Bent Plate Channel  
Stringer with  
Moulding No. 4159Mouldings  
No. 4356 and No. 4360Mouldings  
No. 4173 and No. 4302Bent Plate Channel  
Stringer with  
Moulding No. 4173

Illustrations show the applications of rolled steel Mouldings for stringers, facias and cornices. For full size details of Mouldings see the succeeding pages.

Details are ONE-HALF actual size.

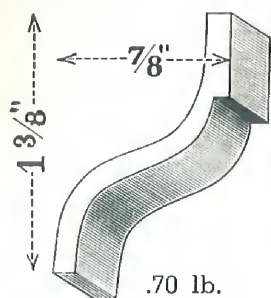
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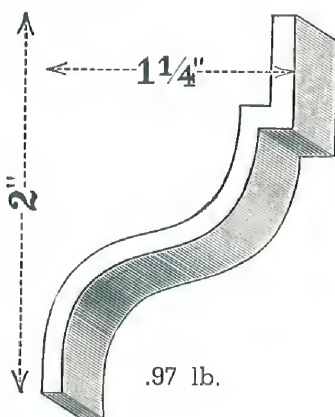
# CHANNEL STRINGER MOULDINGS

95

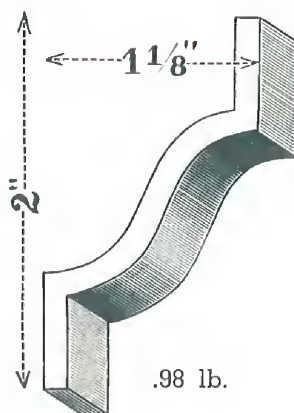
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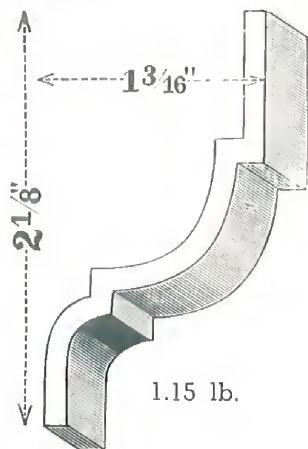
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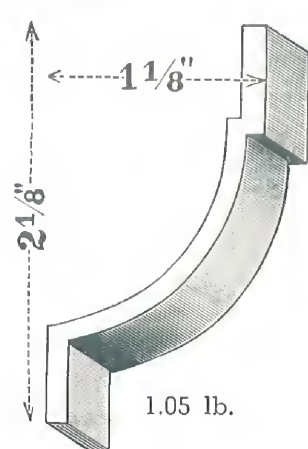
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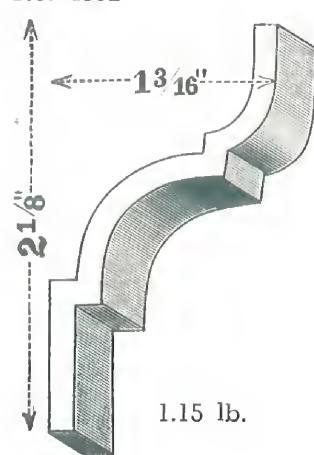
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No. 4312

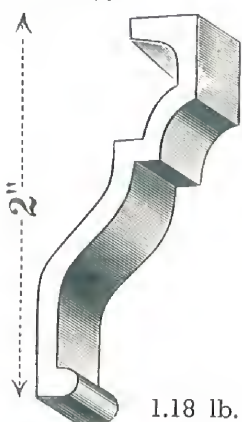


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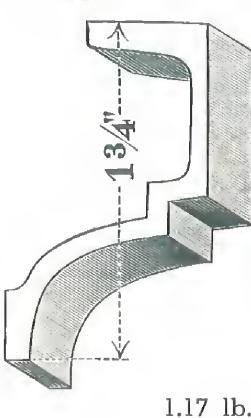


## MOULDINGS FOR BENT CHANNEL STRINGERS

No. 4159



No. 4173

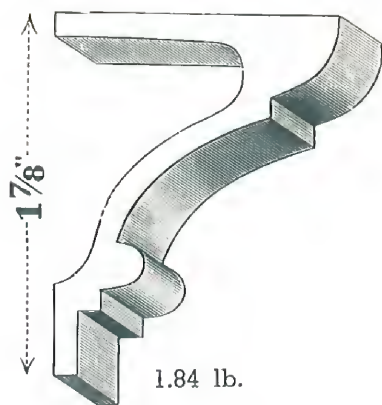


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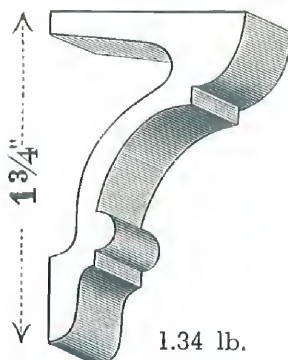
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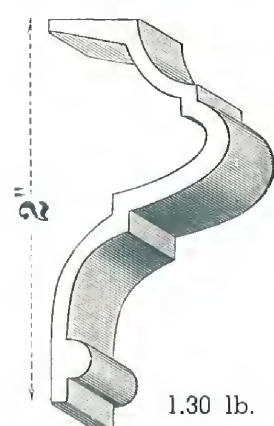
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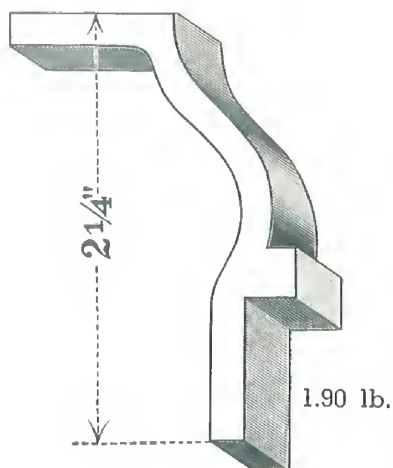


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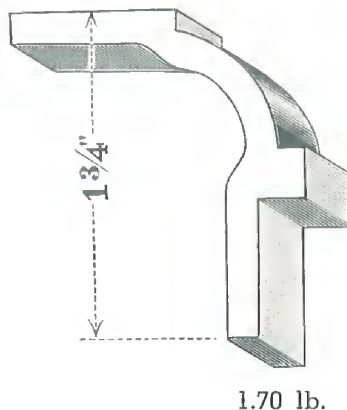


## WALL STRINGER MOULDINGS

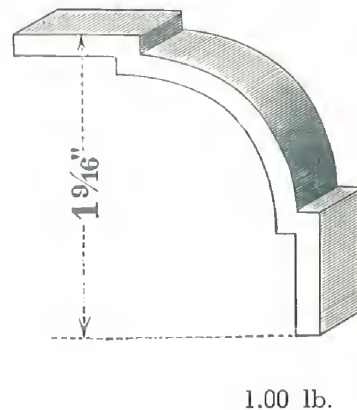
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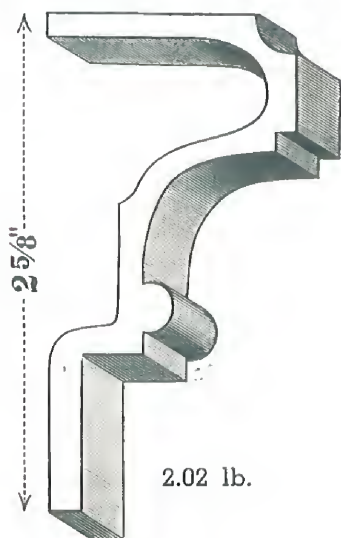
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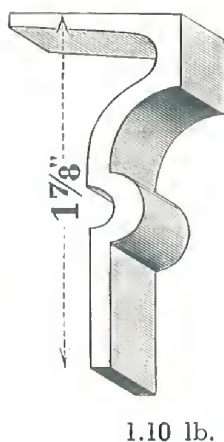
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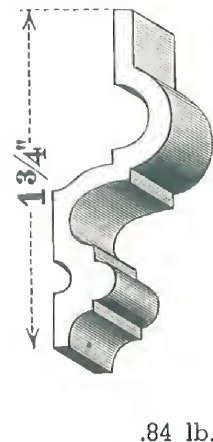
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No. 4280



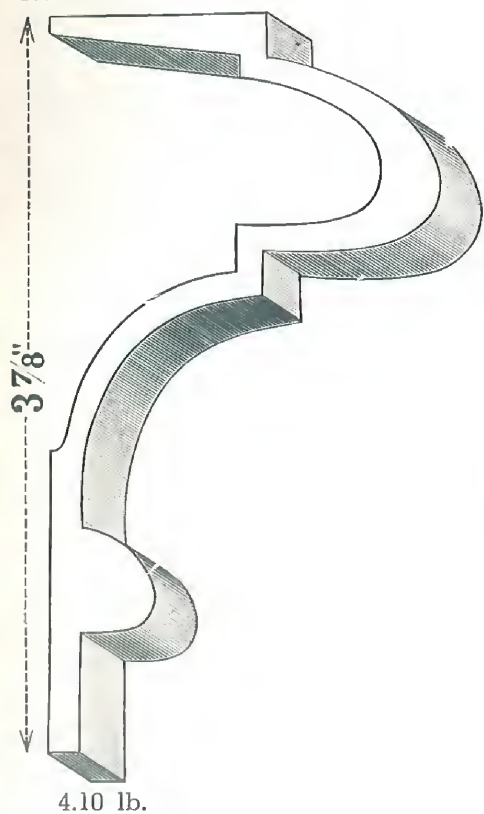
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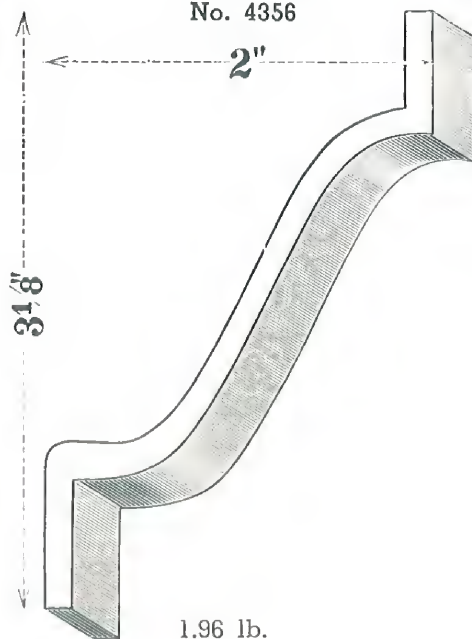
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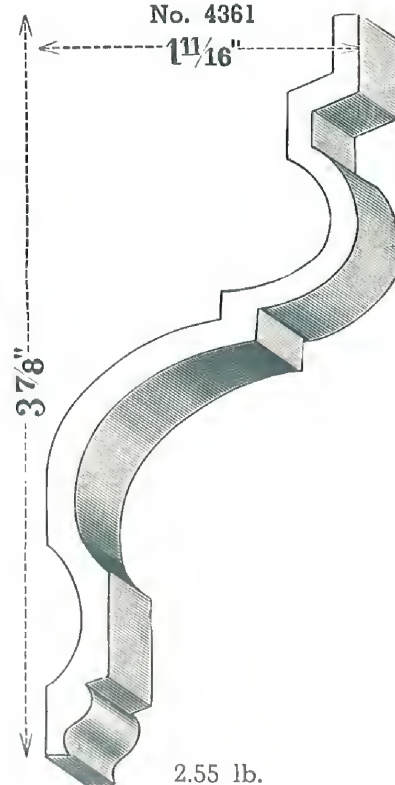
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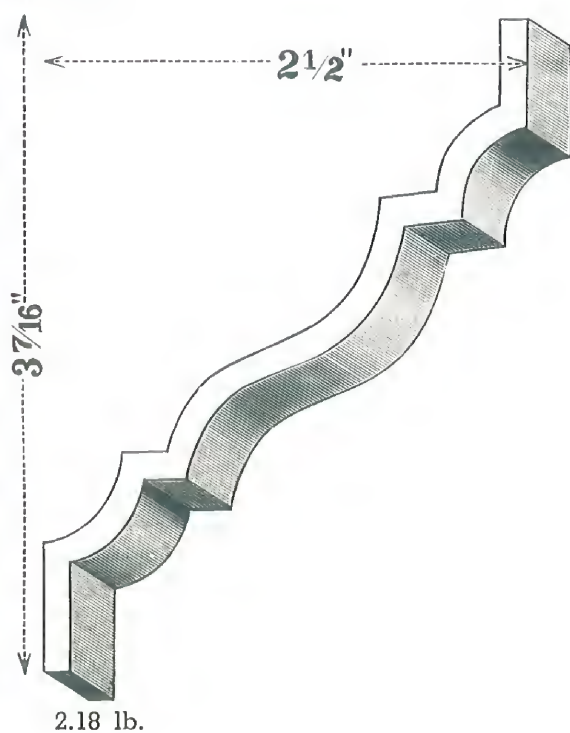
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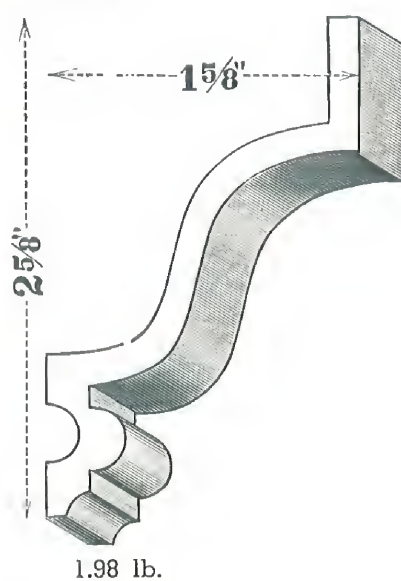
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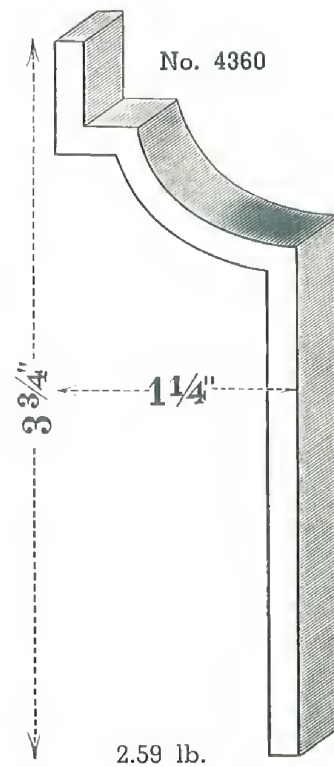
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No. 4354



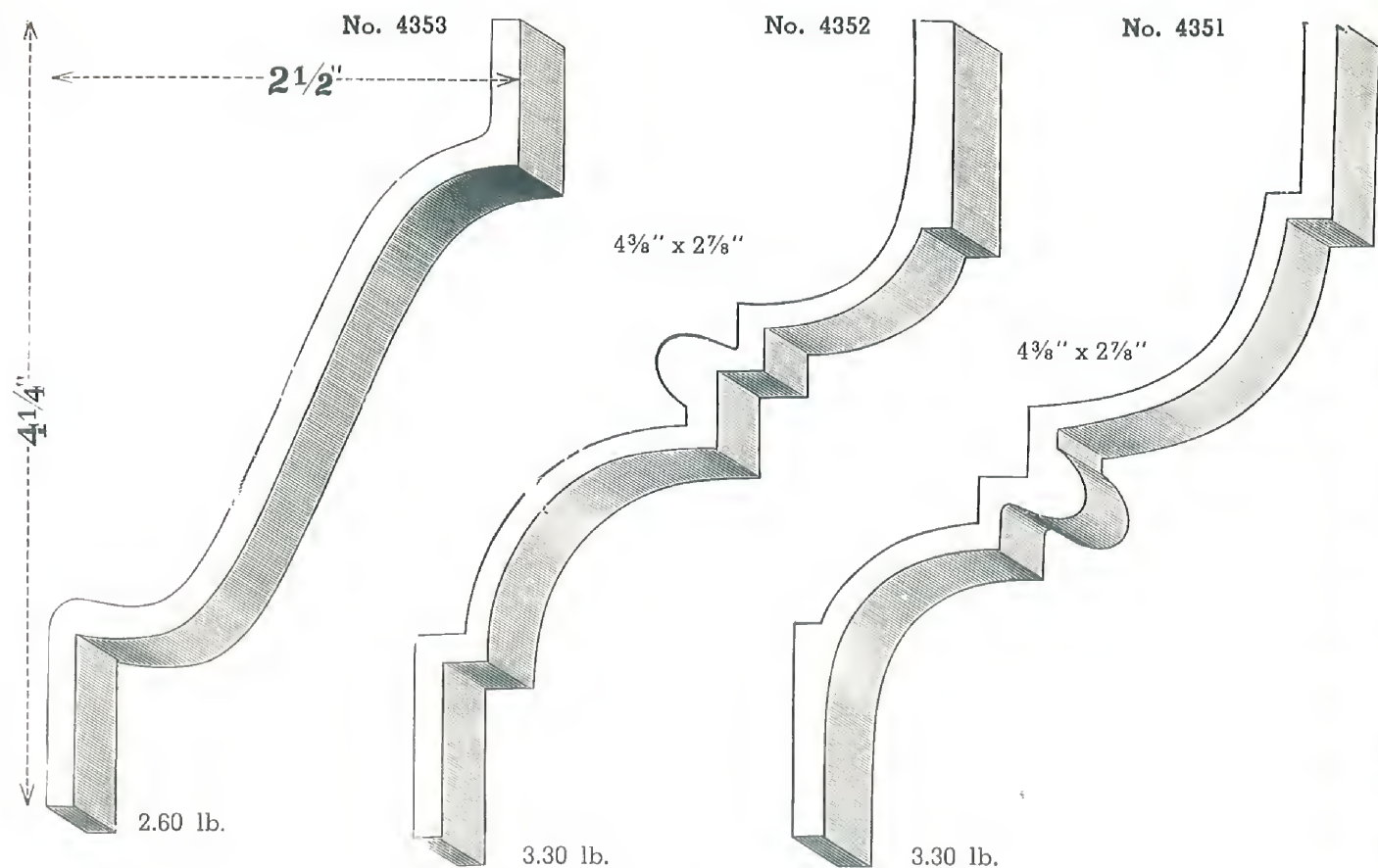
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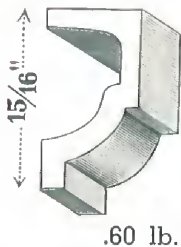
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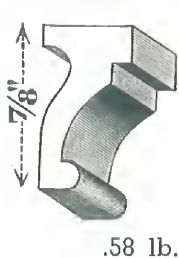




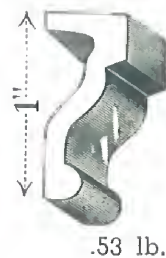
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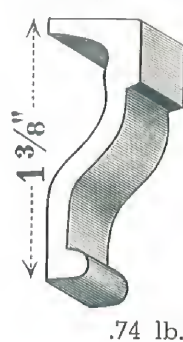
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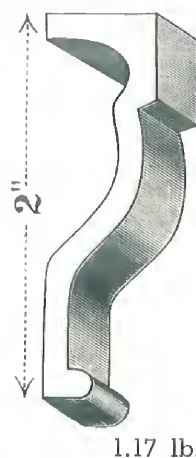
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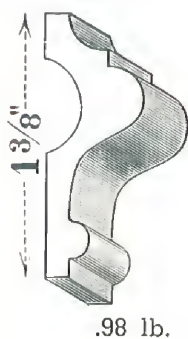
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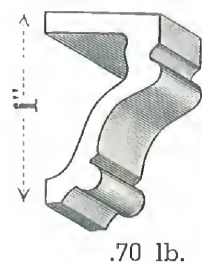
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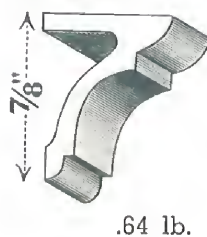
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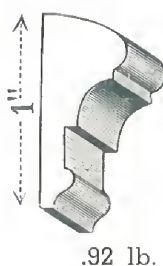
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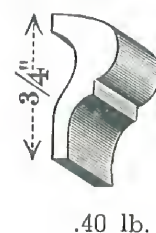
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No. 4144



No. 4201



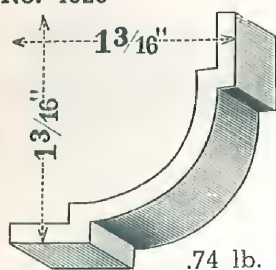
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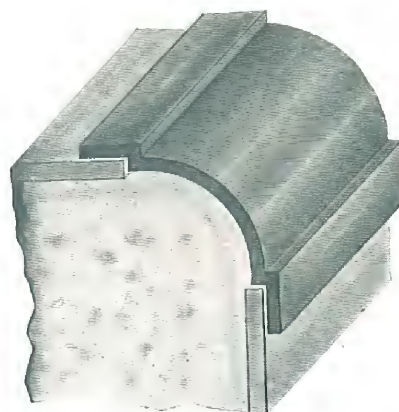
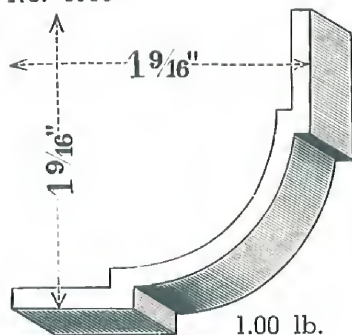
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No. 4320



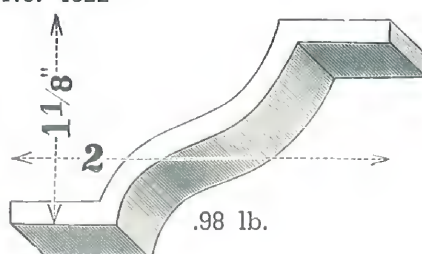
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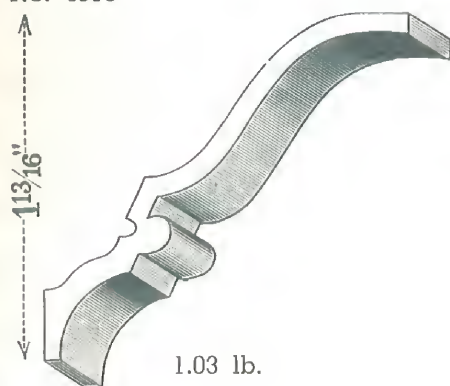
Detail showing Moulding 4310 or 4320 as corner guard.

(not actual size)

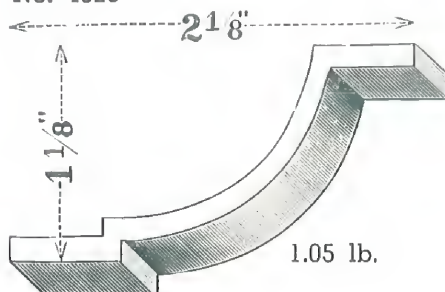
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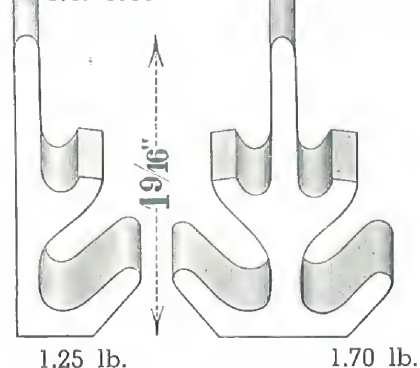
No. 4323



## SKYLIGHT BARS

No. 4630

No. 4631



## COLD ROLLED STEEL MOULDINGS

No. 22 GAUGE

No. 696



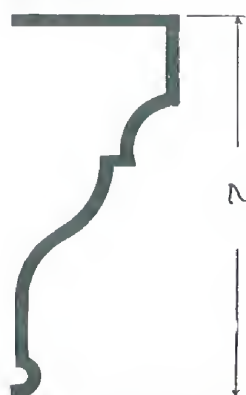
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No. 152



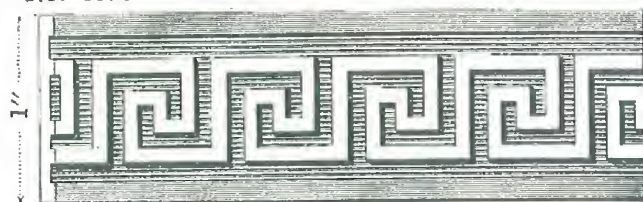
No. 224

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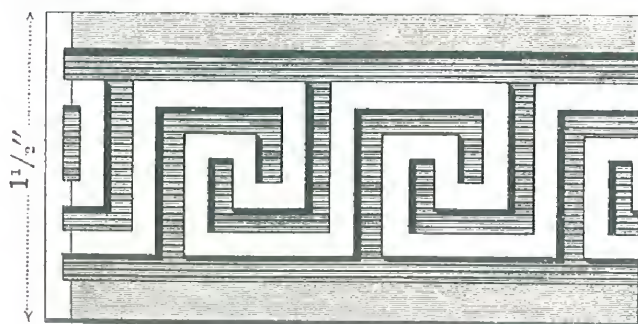


No. 5070



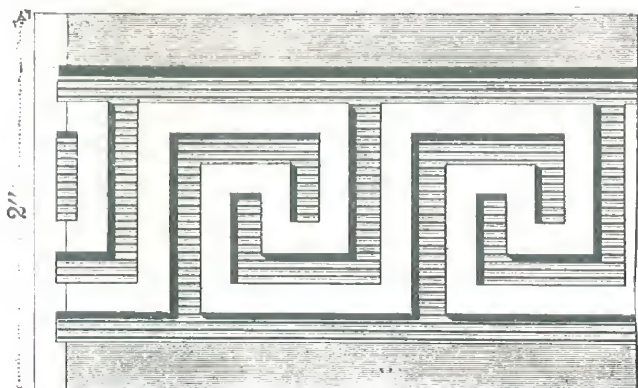
.36 lb.

No. 5071



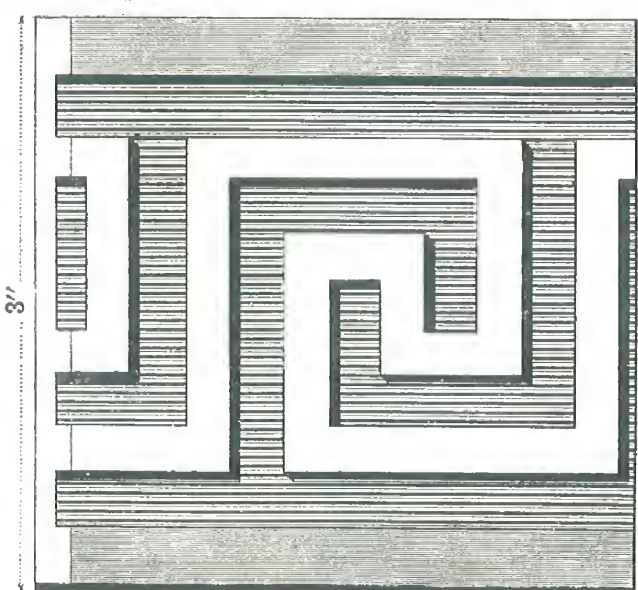
.52 lb.

No. 5072



1.00 lb.

No. 5074



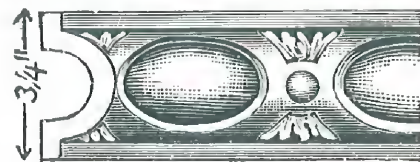
1.60 lb

No. 5020



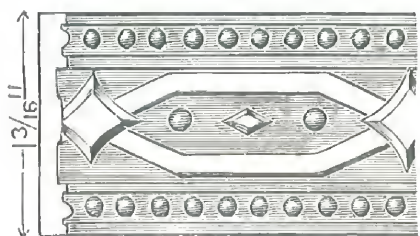
.25 lb.

No. 5021



.48 lb.

No. 5022



.50 lb.

No. 5305



1.46 lb.

Mouldings on this page will be discontinued when present stock is exhausted.

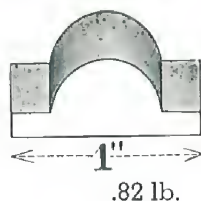
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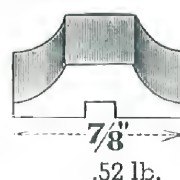
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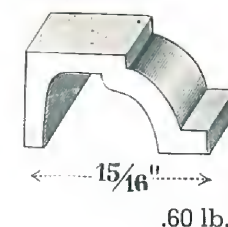
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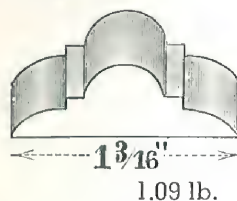
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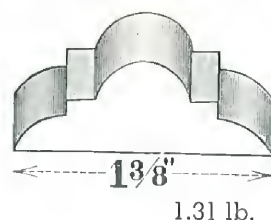
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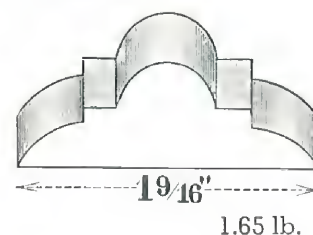
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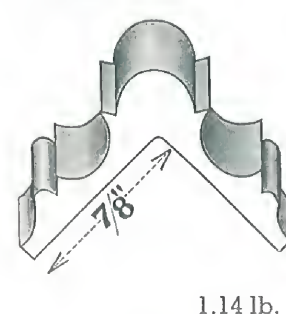
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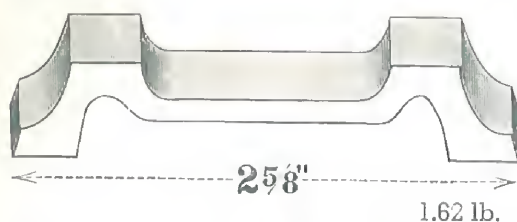
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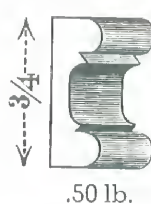
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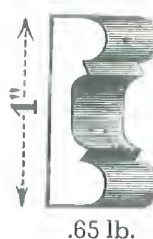
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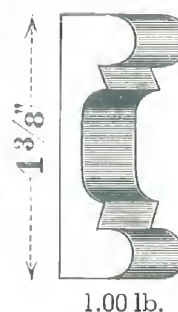
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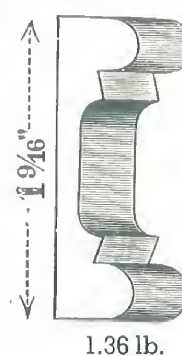
No. 4211



No. 4212



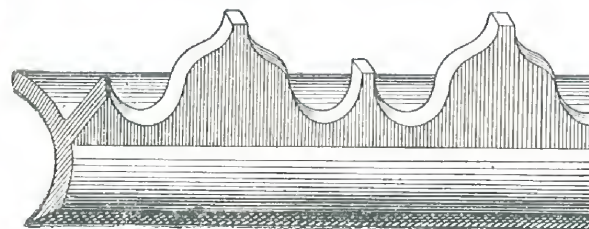
No. 4213



Detail of Loafers Rail applied to round pipe.  
(Not actual size)



### ROLLED STEEL LOAFERS RAIL

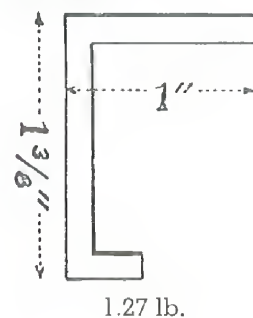


Loafers Rail may be used on flat surfaces as well as pipe rails.

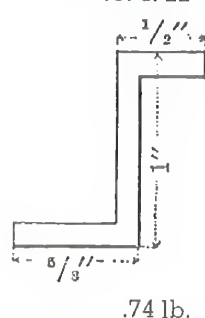
Stronger and cheaper than cast iron.

### ROLLED STEEL SECTIONS FOR CASEMENTS AND VENTILATORS

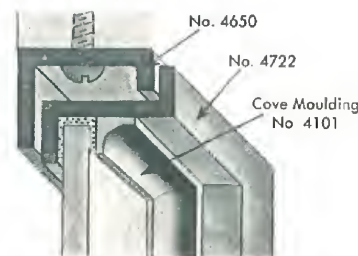
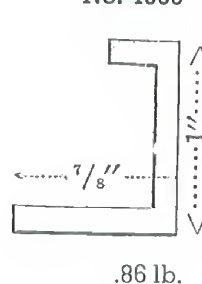
No. 4656



No. 4722



No. 4650



Detail of Ventilator Frame  
(1/2 actual size)

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## ORNAMENTS—HARDWARE

EVERY item listed in this section is carried in stock in substantial quantities. Shipment usually can be made immediately upon receipt of order.

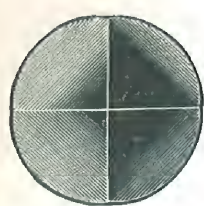
### Subjects covered in this section:

Ornaments	Page No.
Applied Designs, Cast Iron	106, 107
Balls and Rivets, Steel	114
Cups and Husks, Pressed Steel	113
Leaves, Pressed Steel	111, 112
Mouldings, Pressed Steel	114
Nails, Forged Ornamental	103
Pickets, Drop Forged	114
Rosettes, Cast Iron, Bronze, Aluminum	108
Rosettes, Pressed Steel	108, 109, 110
 Hardware for Doors	
Butts, Hinges, Flush Bolts	104
Locks, Door Handles	105

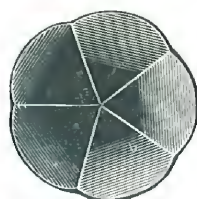
For other ornamental items, see sections on "Railings" and "Treillage"

# FORGED WROUGHT IRON ORNAMENTAL NAILS 103

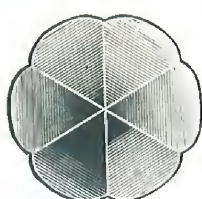
Illustrations Show Top and Side View



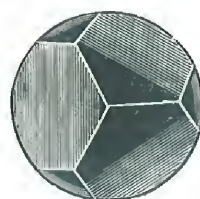
No. 50



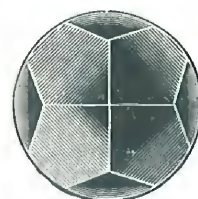
No. 51



No. 52



No. 53



No. 54



No. 55



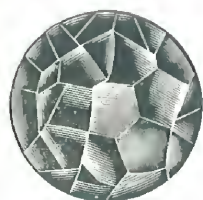
All Numbers are Carried in Stock in Sizes:

$\frac{3}{8}$ "  $\frac{1}{2}$ "  $\frac{5}{8}$ "  $\frac{3}{4}$ "  $\frac{7}{8}$ " 1"  $1\frac{1}{8}$ "  $1\frac{3}{16}$ "

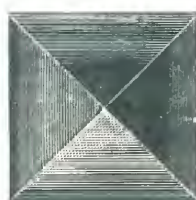
The length of the point, depending on size of the head, ranges from  $\frac{3}{4}$ " to  $1\frac{3}{8}$ "

ILLUSTRATIONS ARE NOT ACTUAL SIZE

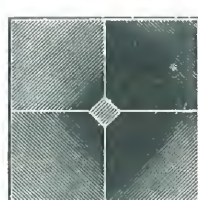
When ordering please state number and size wanted



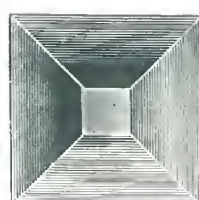
No. 56



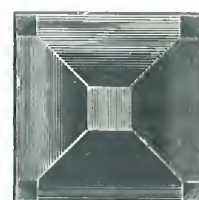
No. 62



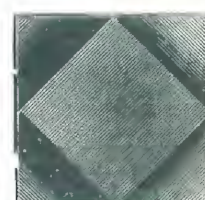
No. 63



No. 64



No. 65



No. 66



FORGED WROUGHT IRON NAILS are furnished with natural hand-hammered finish. They may be used advantageously for studding church doors, wooden chests, furniture, trim, hinge bands and other hardware.

FORGED WROUGHT IRON NAILS are also used for other decorative purposes such as forming rosettes in corners or panels, for fancy rivets on lighting fixtures, mirrors, tables, chairs, fireplaces, display fixtures, etc.

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## HEAVY DUTY HINGES AND BUTTS

Blank—without screw holes

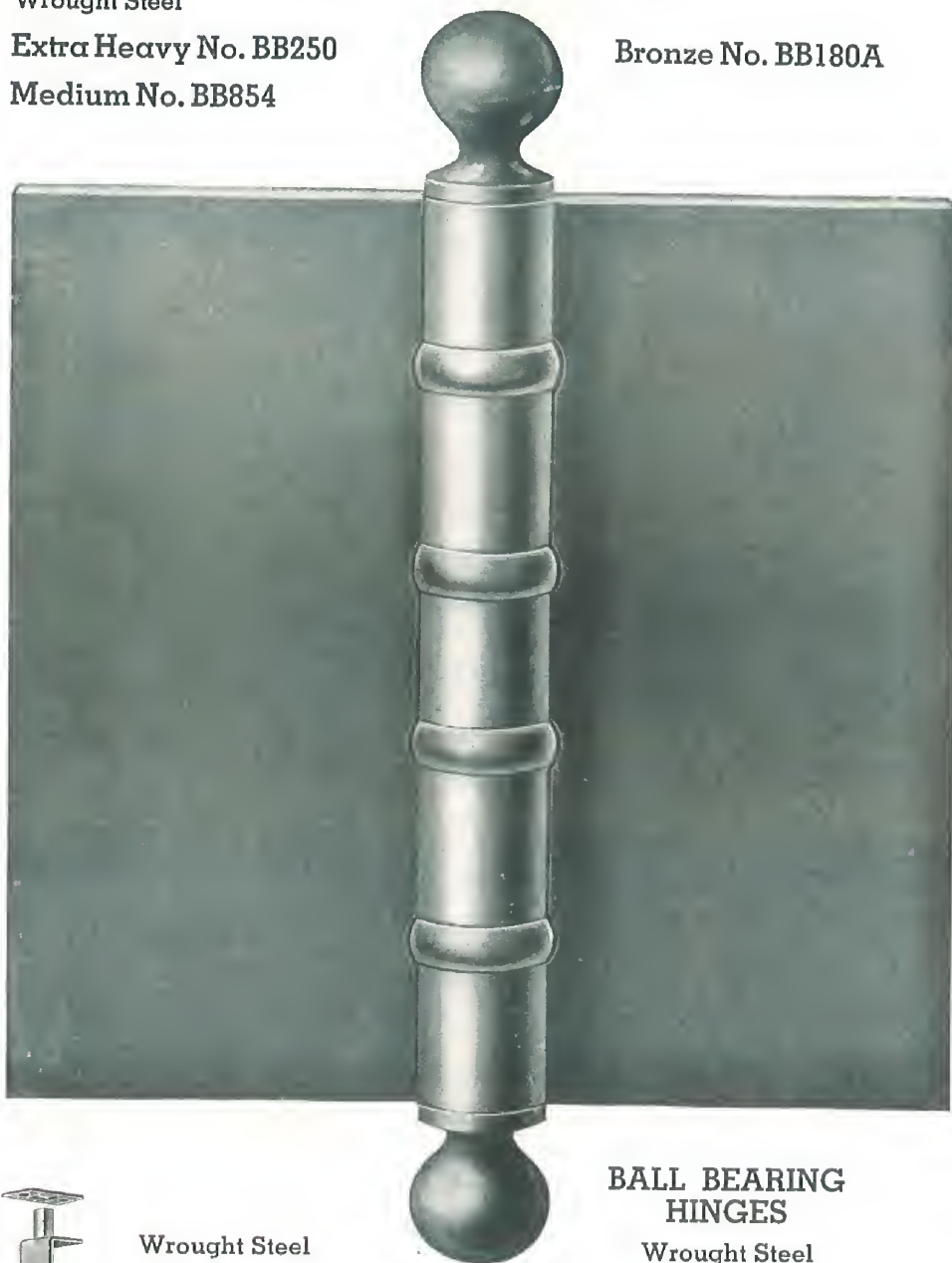
## BALL BEARING HINGES

Wrought Steel

Extra Heavy No. BB250

Medium No. BB854

Bronze No. BB180A



## BALL BEARING HINGES

Wrought Steel

Extra Heavy

4" x 4"	.170" gauge
4½" x 4½"	.180" "
5" x 5"	.190" "
6" x 6"	.203" "

Medium

6" x 5"	.160" gauge
6" x 6"	.160" "

Bronze

4" x 4"	.130" gauge
5" x 5"	.146" "

Wrought Steel  
Flush Bolts

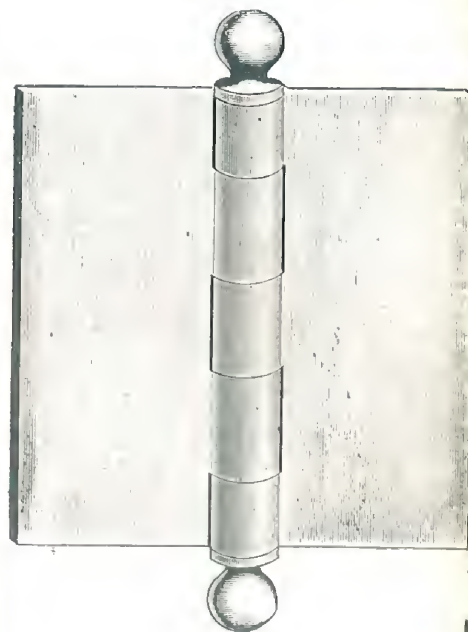
9" long

Bolt has 1" throw, is  
¾" square and has  
1¾" lip extension.  
Front plate 1" wide.



Hinges are equipped with ball bearing washers which prevent wear and insure easy and quiet operation. All Butts and Hinges furnished blank, without screw holes.

## LOOSE PIN BUTTS

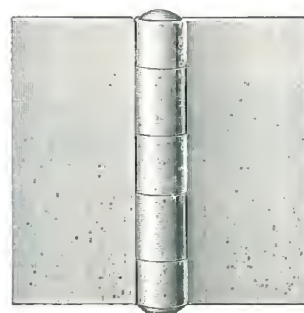
Wrought Steel  
No. NH823

Stock sizes

2" x 2"	.082" gauge
2½" x 2½"	.089" "
3" x 3"	.092" "
3½" x 3½"	.123" "
4" x 4"	.130" "

## PLAIN BUTTS

Tight Pin—No. 850

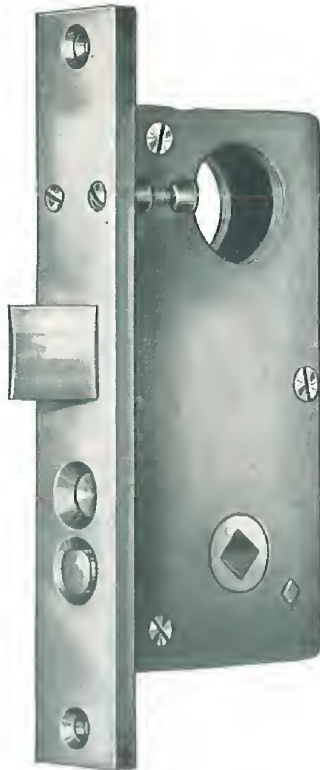


Stock sizes

3" x 3"	.130" gauge
4" x 4"	.160" "
5" x 5"	.180" "

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**TYPE F**  
Latch only



**TYPE G**  
Latch and  
Dead Bolt



**TYPE Q**  
Dead Bolt only

## WHEN ORDERING LOCKS, SPECIFY TYPE AND BACKSET

Type F and Type G locks are reversible for right and left hand doors, opening in or out. All locks are furnished in two sizes:

1 1/8" backset, overall depth 1 7/8", for doors with 2" stiles.

1 1/8" backset, overall depth 2 5/8", for doors with 3" or wider stiles.

All locks are threaded on both sides for standard cylinder. Type G and Type Q locks are operated by thumb knob from the inside. Cylinders are not included with locks.

Locks are of sturdy brass construction especially suited for use on vestibule doors, gates, steel partition doors, etc.

## CYLINDERS FOR LOCKS

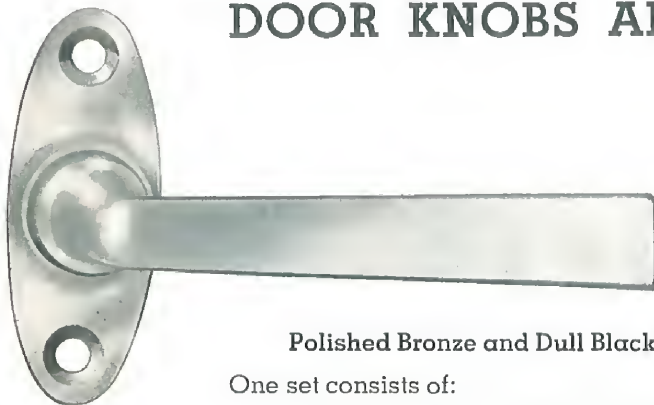
Two sizes

1 " long

1 1/4" long

Standard threads  
Each cylinder furnished with 2 keys.  
When ordering several cylinders, state whether or not they should be keyed alike.

## DOOR KNOBS AND LEVER HANDLES



Polished Bronze and Dull Black Malleable Iron

One set consists of:

1 Lever, 1 Knob, 1 Swivel Spindle, 2 Escutcheons

Also sold separately, or in sets of 2 Levers or 2 Knobs.



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## APPLIED DESIGNS

Cast Iron

Applied Designs are finished castings with every detail executed perfectly.



No. 6210



No. 6211



No. 6212



No. 6213



No. 6214

Illustrations are ONE-THIRD actual size

## Cast Iron

Applied Designs are finished castings with every detail executed perfectly.



No. 6215



No. 6216



No. 6217



No. 6218



No. 6219

Illustrations are ONE-THIRD actual size

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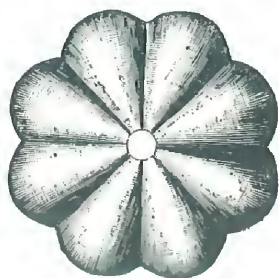


## ROSETTES

Illustrations are not actual size

Cast Iron  
Polished Bronze  
Polished AluminumNo. 554  
2 3/4" dia.

PRESSED STEEL

1", 1 1/4", 1 1/2",  
2" or 3" dia.Cast Iron—Polished Bronze  
Polished AluminumNo. 553  
3 3/4" x 2 1/4" ovalCast Iron—Polished Bronze  
Polished AluminumNo. 6201  
1 7/8" dia.No. 6203  
1 3/4" dia.

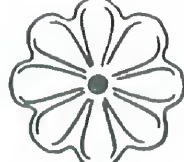
Cast Iron



No. 6202 3" long, 1 7/8" wide

## SMALL PRESSED STEEL ROSETTES

Illustrations are about one-half actual size

2501  
7/8" dia.2502  
7/8" dia.2503  
1 5/16" dia.2504  
7/8" dia.2505  
1" wide2506  
1" wide2507  
1 1/16" dia.2508  
1 1/8" dia.2509  
1 1/4" dia.2510  
1 1/4" dia.2511  
1" wide2512  
1 3/8" wide2513  
1 1/2" dia.2514  
1 1/2" dia.2515  
1 5/8" dia.2516  
1 5/8" dia.2517  
1 3/8" wide2519  
1 5/8" dia.2520  
1 5/8" wide2521  
1 1/2" wide2522  
1 1/2" wide2523  
1 3/4" wide2524  
1 3/8" wide2525  
1 5/8" wide2530  
1 3/4" wide**JULIUS BLUM & CO., INC. • CARLSTADT, N. J.**

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# PRESSED STEEL ROSETTES

109

*Illustrations are about one-third actual size.*



2601  
Width 2 1/8"



2602  
Width 2 3/8"



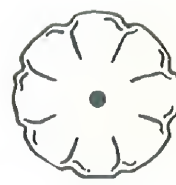
2603  
Width 2 1/2"



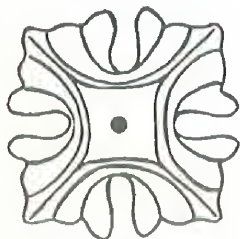
2604  
Width 2 1/2"



2605  
Width 2 1/2"



2606  
Width 2 3/8"



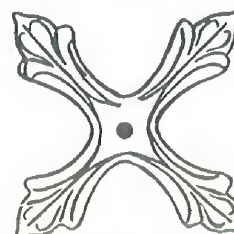
2607  
Width 3 3/8"



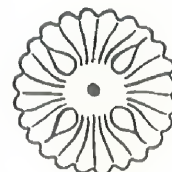
2608  
Length 4 3/8"  
Width 3 1/4"



2609  
Width 2 3/8"



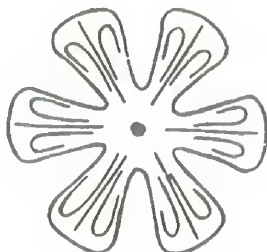
2610  
Width 3 1/4"



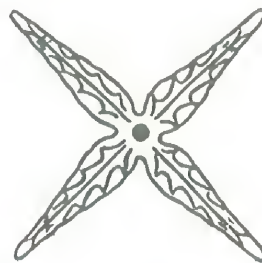
2611  
2 3/8" dia.



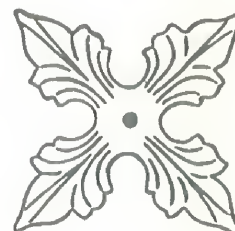
2612  
4 3/4" wide



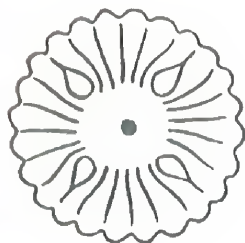
2613  
3 3/8" wide



2614  
3 5/8" wide



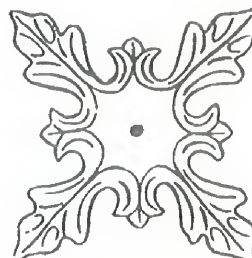
2615  
3 1/4" wide



2616  
3 5/8" dia.



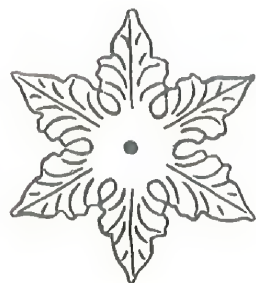
2617  
4" wide



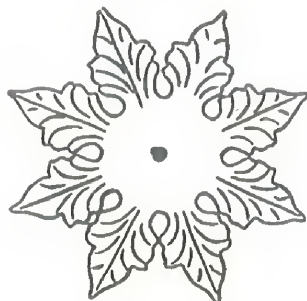
2618  
3 3/4" wide



2619  
3 1/2" wide



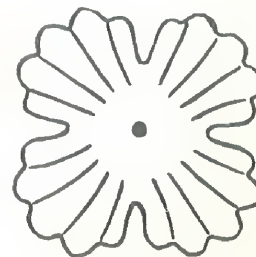
2801  
5 1/8" wide



2802  
5 3/4" wide



2806  
4 3/4" wide



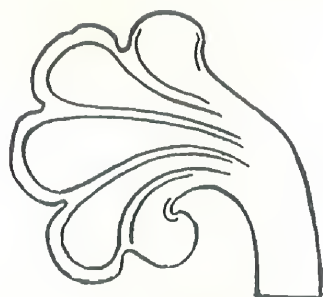
2808  
4 3/4" wide

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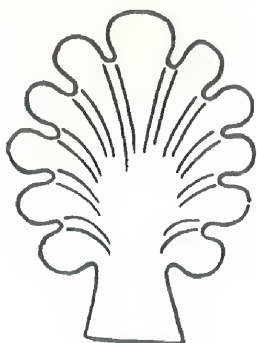
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*Illustrations are about one-third actual size*



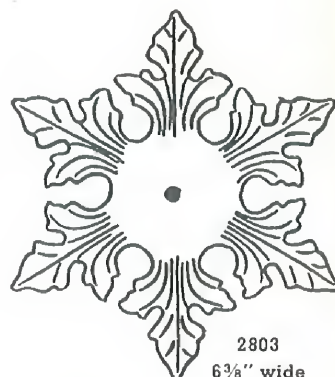
2809  
4 3/4" x 5"



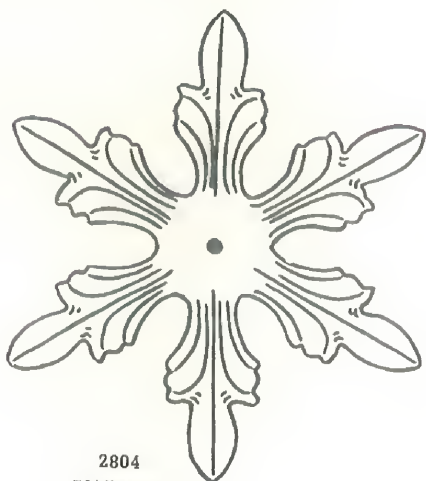
2810  
6" x 4 1/2"



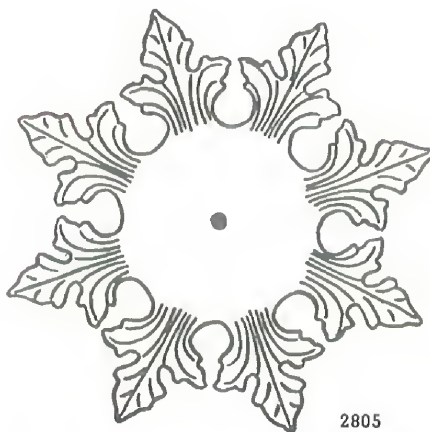
2811  
4 3/4" x 5"



2803  
6 3/8" wide



2804  
7 3/4" wide



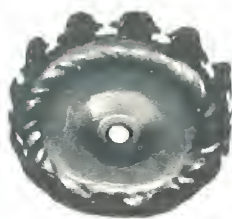
2805  
8" wide



2643  
6" dia.



2620  
4" dia.



2625  
3 3/8" dia.



2629  
4" dia.



2640  
3 3/4" dia.

*Candle pans above also furnished with screw type adapters for lamp sockets.*



2630  
2 3/4" dia.



2634  
1 1/4" ins. dia.



2635  
1" ins. dia.



2636  
7/8" ins. dia.



2730  
1 3/8" dia.

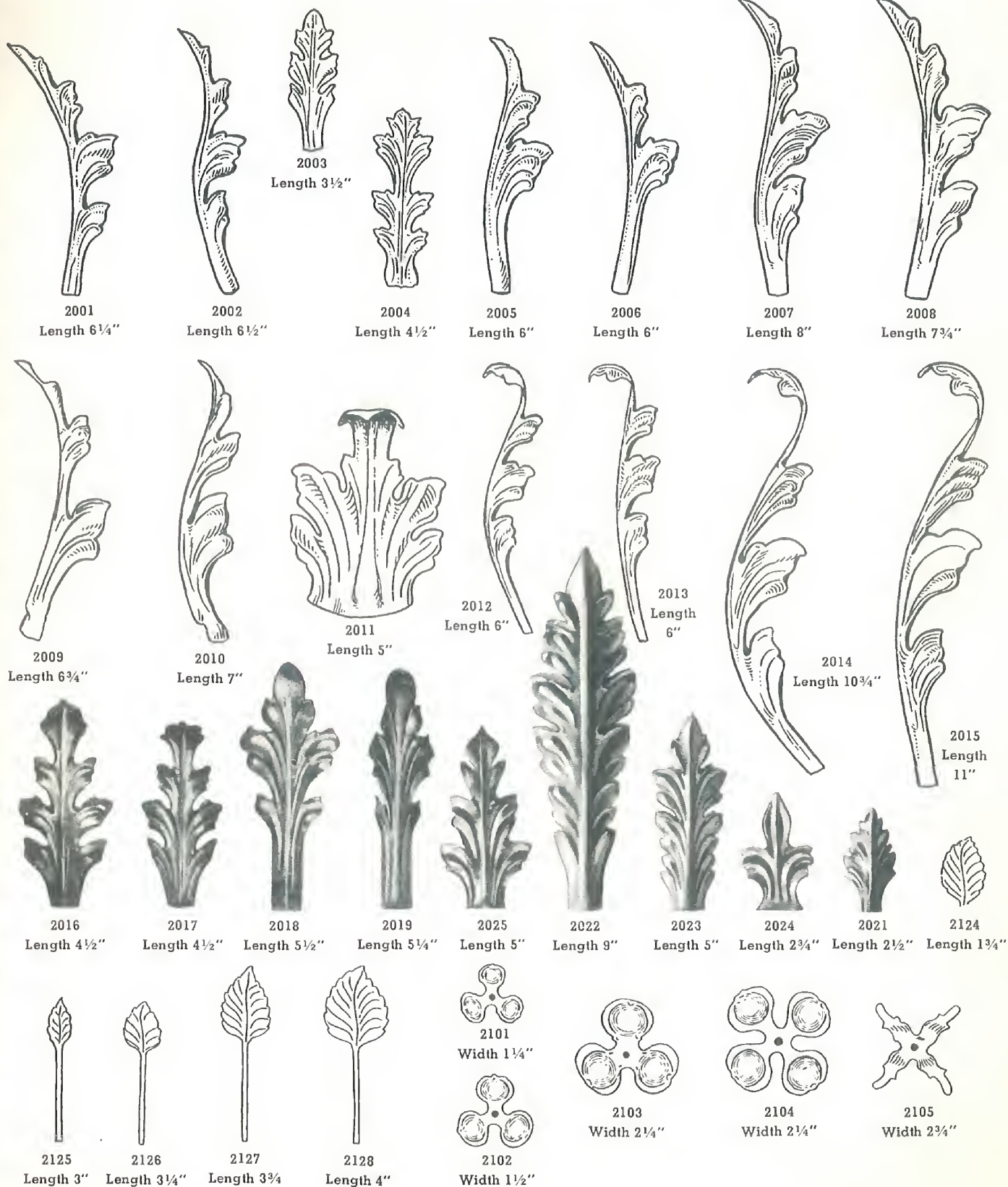


2731  
3 1/8" dia.

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Illustrations are about one-third actual size



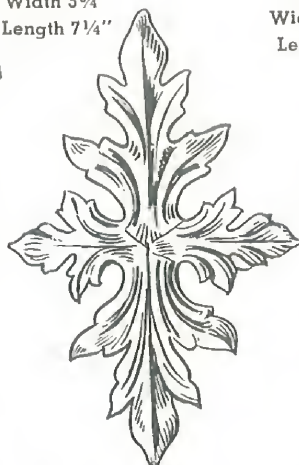
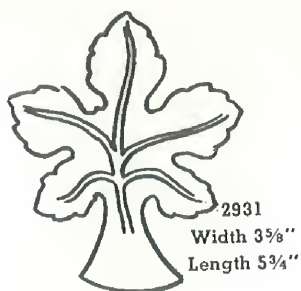
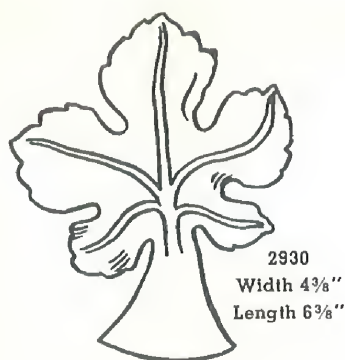
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MACHINE.



Illustrations are about one-third actual size



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# CUPS, HUSKS and SOCKET COVERS

113

Illustrations are about one-third actual size



2701  
Width 1½"  
Height 1"



2702  
Width 1½"  
Height 1¾"



2704  
Width 1¾"  
Height 1½"



2705  
Width 2"  
Height 1¾"



2706  
Width 2¼"  
Height 1¾"



2707  
Width 3"  
Height 1½"



2708  
Width 2¼"  
Height 2"



2709  
Width 1¾"  
Height 1¾"



2710  
Width 1¾"  
Height 2"



2711  
Width 2"  
Height 1¾"



2711-S  
Width 1"  
Height 1¾"



2712  
Width 1¾"  
Height 2¼"



2713  
Width 2¼"  
Height 2¼"



2714  
Width 2¾"  
Height 1¾"



2715  
Width 2½"  
Height 2½"



2716  
Width 2¾"  
Height 2½"



2717  
Width 3¼"  
Height 3¼"



2718  
Width 1½"  
Height 2½"



2719  
Width 2¼"  
Height 5½"



2720  
Width 1¾"  
Height 3"



2721  
Width 2½"  
Height 2¼"



2725  
Width 2¼"  
Height 3½"



2722  
Width 1½"  
Height 1¾"



2723  
Width 1½"  
Height 1¾"



2726  
Width 1¼"  
Height 2¾"



2727  
Width 1½"  
Height 2"

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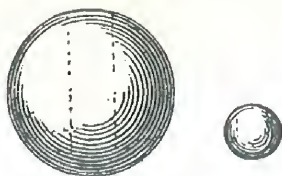
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# ORNAMENTAL BALLS AND RIVETS

Balls have drilled holes

## ROUND BALLS



No. Size

0-1" dia.  
1-7/8" dia.  
2-3/4" dia.  
3-5/8" dia.  
4-1/2" dia.  
5-3/8" dia.  
41-5/16" dia.  
42-1/4" dia.

## OVAL BALLS



No. Size

111-1" x 5/8"  
110-7/8" x 3/16"  
109-3/4" x 7/16"  
108-5/8" x 7/16"  
107-1/2" x 5/16"  
106-3/8" x 1/4"

## OVAL BALLS WITH SHOULDER



No. Size

70-1" x 5/8"  
71-3/4" x 1/2"

## ROUND



## ROUND HEAD RIVETS

No. Size

0-1" dia.  
1-7/8" dia.  
2-3/4" dia.  
3-5/8" dia.  
4-1/2" dia.  
5-3/8" dia.  
41-5/16" dia.  
42-1/4" dia.

## DROP FORGED PICKET



No. 54  
3/4" SQUARE SHANK

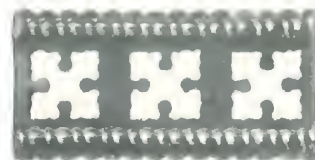
## PRESSED STEEL MOULDINGS

10 FOOT LENGTHS

Illustrations are about one-fourth actual size



No. 2852  
2 3/4" wide



No. 2855  
3 1/8" wide



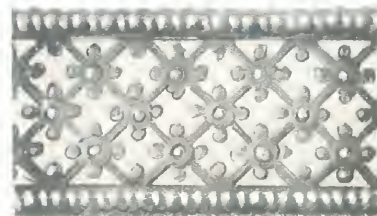
No. 2853  
3 1/2" wide



No. 2856  
4 1/4" wide



No. 2854  
4" wide



No. 2858  
4 1/2" wide

**JULIUS BLUM & CO., INC. • CARLSTADT, N. J.**

New Jersey Phone: GENEVA 8-4600 • New York Phone: OXFORD 5-2236 • Philadelphia Phone: MARKET 7-7596

# METAL WORKING MACHINERY

115

We are recognized distributors for many nationally known manufacturers of machinery and metal fabricating equipment.

Through over 45 years of close contact with the metal working trade we have acquired a thorough knowledge of the requirements of various types of shops. We are in a position to recommend whatever equipment is best suited for each customer's needs.

The following is a partial list of machinery which we handle and much of which we carry in stock.

Air Compressors  
Angle Shears  
Anvils  
Arc Fit  
Band Saws  
Bar Cutters  
Bar Twisters  
Benders  
Bending Brakes  
Bending Rolls  
Blowers  
Buffers  
Clamps, Lifting  
Clamps, Welding  
Crane Assemblies

Crayons, Marking  
Drills  
Forges  
Grinders  
Grinding Wheels  
Hack Saws  
Hammers, Electric  
Hammers, Power  
Hoists, Electric  
Hole Saws  
Hydraulic Presses  
Notchers  
Punches and Dies  
Punches

Punches and Shears  
Punch Presses  
Rivet Heaters  
Sanders, Portable  
Saws  
Screw Drivers, Electric  
Shears  
Stock Stand  
Tappers  
Threading Machines  
Threading and Cutting Oil  
Trolleys  
Vises  
Welders

Please write for our Catalog "Metal Working Machinery."

## PUNCHES AND DIES

A complete line of punches and dies is carried in stock to fit nearly every type of punching machine, domestic or imported.

Stock items include punches and dies for round, square, rectangular and oval holes in a wide range

of sizes. Special shapes and sizes promptly made to order.

A careful record is kept of customers' punch and die specifications, so as to give prompt service and avoid errors and delays on repeat orders.

### INSTRUCTIONS FOR ORDERING

The following data are required to fill punch and die orders properly:

#### ALL PUNCHES AND DIES:

Exact size and shape of hole to be punched  
Quantity for each size

#### HEADED PUNCHES:

Diameter of Head  
Diameter of Body  
Overall length  
(not including tip)

#### STRAIGHT SHANK PUNCHES:

Diameter of Shank  
Overall length  
(not including tip)

#### REGULAR ROUND DIES:

Outside Diameter  
Overall height

#### OTHER ROUND DIES:

In addition to diameter and height, specify whichever applies:  
Flat face  
Off center hole  
Bevel top  
Bevel top—flat face  
Bevel top—off center

### WRITE FOR CONVENIENT ORDER BLANKS

**ORDER BLANK**  
Punches and Dies

PLEASE STATE MEASUREMENTS ACCURATELY  
A careful record will be kept of your specifications, so as to avoid errors and delays on repeat orders.

Complete stock on hand

When ordering Dies, specify hole according to punch size.

EXAMPLE: To punch hole for 1/2" dia. use 1/2" punch.

When ordering Dies, specify hole according to punch size.

EXAMPLE: For use with 1/2" punch, order 1/2" Die. Die will be finished with other hole for 1/2" punch.

When ordering punches and dies, specify material, shape, size, and finish.

When ordering punches and dies, specify material, shape, size, and finish.

**JULIUS BLUM & CO., INC.**

### PLEASE STATE MEASUREMENTS ACCURATELY

Also state, if possible, make and model of punching machine. On repeat orders, it will then suffice to state quantity and size of punches and dies and to mention the machine.

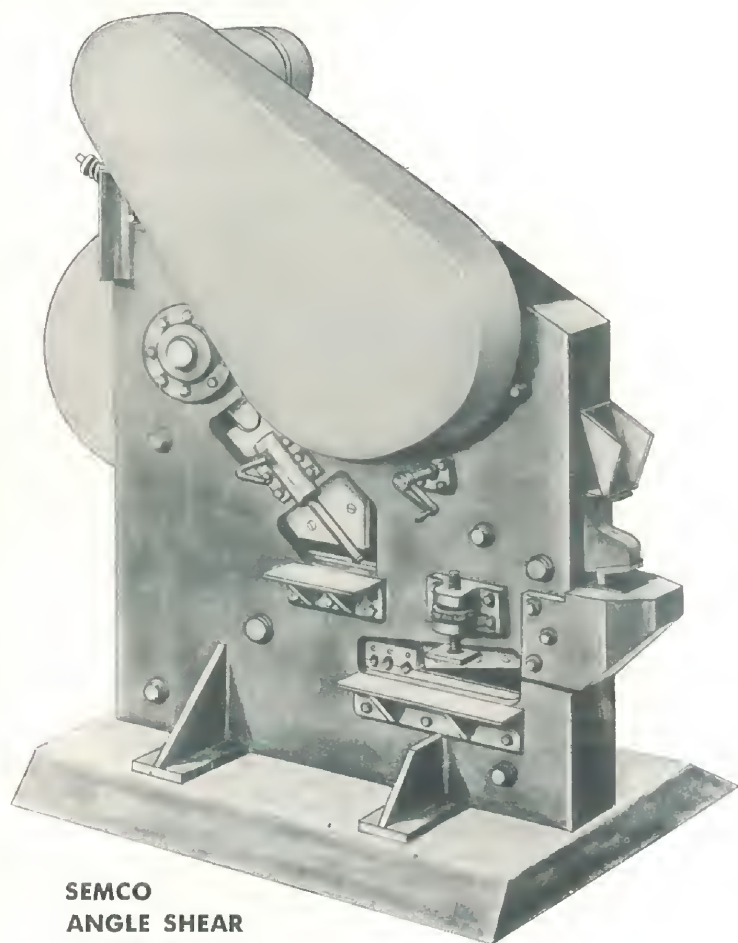
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# SEMCO STRUCTURAL ANGLE SHEAR

*Designed and built especially for Julius Blum & Co., Inc.*



**SEMCO  
ANGLE SHEAR  
MODEL S-66**

The Semco Structural Punch and Semco Angle Shear now make it economical to use single purpose machines. Each can be placed in the most convenient spot and both operated independently. They can replace the double end combination machine which must be accessible from all sides and often creates space or handling problems.

The cost of the two machines is less than that of a combination unit of comparable capacity.

This machine is designed to handle the majority of angle and bar cutting requirements of structural and miscellaneous iron shops.

Uncomplicated design and quality workmanship make this machine reliable and trouble free, though low in cost.

---

## CAPACITY

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### WITH STANDARD EQUIPMENT

Cuts Angles (square cuts only)	up to 6" x 6" x $\frac{5}{8}$ "
Cuts Flats	{ up to 10" x $\frac{1}{2}$ " up to 12" x $\frac{3}{8}$ "
Cuts Rounds	up to 1 $\frac{1}{4}$ "
Cuts Squares	up to 1 $\frac{1}{4}$ "

### WITH SPECIAL BLADES

Cuts Angles (square cuts only)	up to 7" x 4" x $\frac{1}{2}$ "
Cuts Rounds	up to 2"
Cuts Squares	up to 2"

### WITH BUILT-IN COPER (optional equipment)

Copes plates or flanges of structurals	up to $\frac{3}{8}$ "
Notches Angles, in one stroke	up to 2" x 2" x $\frac{3}{8}$ "
Notches Angles, in three strokes	up to 4" x 4" x $\frac{3}{8}$ "
Size of coper	2 $\frac{1}{2}$ " wide x 3 $\frac{3}{4}$ " deep.

---

## DIMENSIONS

---

Length over all, without coper	64"
with coper	74"
Width over all	29 $\frac{1}{2}$ "
Height, with motor, approx.	85"
Size of Base	52 $\frac{1}{2}$ " x 29 $\frac{1}{2}$ "
Approx. Shipping Weight	8000 lbs.
Motor required	5 HP, 1800 RPM

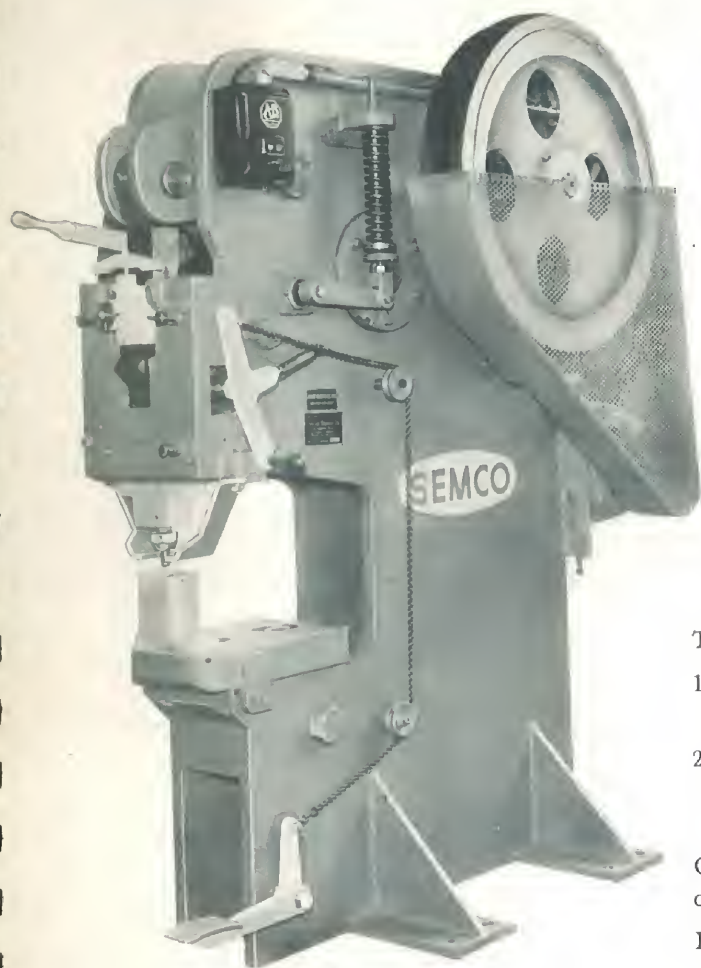
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# SEMCO STRUCTURAL PUNCHING MACHINE 117

Designed and built especially for Julius Blum & Co., Inc.

*A punching machine designed for the needs of the structural steel fabricator.*



MODEL S-34

## SPECIFICATIONS

Capacity . . . { 7/8" through 3/4"	Motor required . 5HP 1800 RPM
(in mild steel) { 1 1/4" through 5/8"	Floor space required . 34" x 72"
Depth of Throat . . . . 20"	Height overall . . . . 81"
Height of Throat . . . . 14"	Net Weight, with motor 6,480 lbs.
Strokes per minute . . . 30	Approx. Shipping Weight 6,800 lbs.

Punches webs and flanges of:

- Standard I-Beams from 4" to 24"
- H-Columns from 4" to 12"
- Wide Flange Beams with flanges up to 12"

Unbreakable Steel Plate Construction

- Full Floating Punch
- "Structural" Throat and Die Block

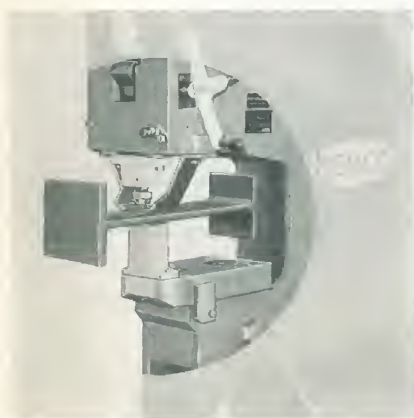
## Floating Punch

This feature permits centering punch in either of two ways:

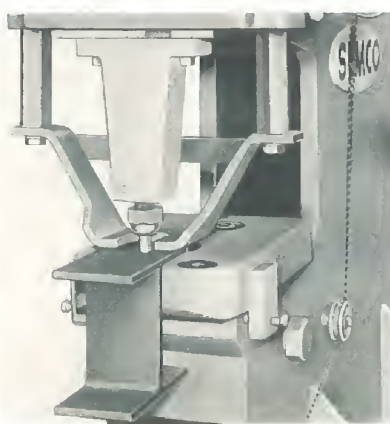
1. By Hand Lever: Punch is lowered and held down to the center mark until it is engaged.
2. By Floating: Punch is set to idle up and down and adjusted to touch the work lightly on each stroke, leaving the operator's hands free to center the work under the punch.

Once the work is centered, the punch is engaged by foot pedal or hand lever.

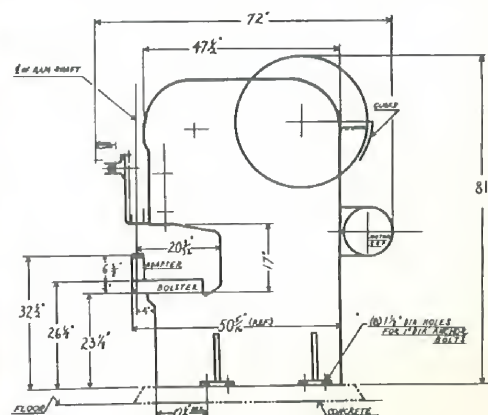
Punches and Dies are of standard type available from stock in a complete range of shapes and sizes.



High Die Block for punching Webs and for Flanges of 12" and larger beams and columns.



Low Die Block for punching Flanges of beams down to 4".



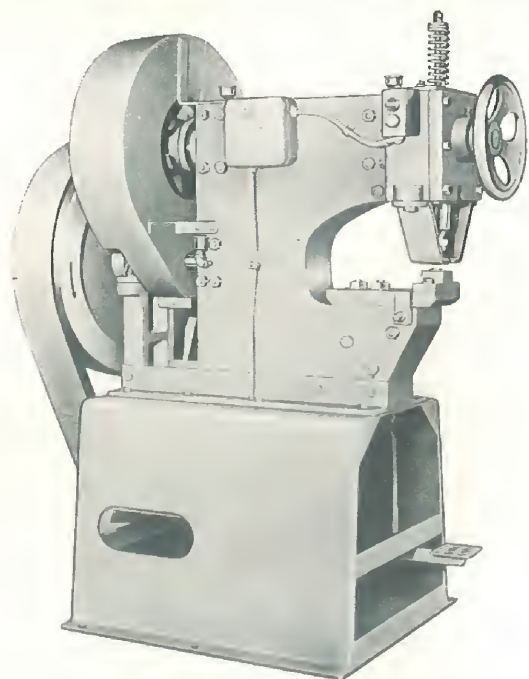
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# SINGLE END PUNCHING MACHINES

Designed and Built Especially for Julius Blum & Co., Inc.



## FEATURES

**FRAME:** Unbreakable steel plate construction.

**CLUTCH:** Foot operated, remains engaged until stroke is completed.

**PUNCH** can be lowered by hand wheel for accurate centering.

**DIE BLOCK:** Overhanging type, suitable for punching web and flanges of channels and I beams. With excentric dies, angles can be punched close to the inside corner.

**STEEL BASE** is standard equipment, giving the machine the proper working height.

**PUNCHES AND DIES** are of standard type, available in a wide range of shapes and sizes.

**OPTIONAL EQUIPMENT:** Triple Punching Attachment makes available any one of three punch sizes instantly without tool change. It handles round punches up to 9/16".

**Twin Punching Attachment** similar in construction to triple punching attachment, accommodates two punches and dies in round sizes up to 1" and squares up to 25/32".

**Angle Shearing Attachment** cuts angles up to 2" x 2" x 1/4".

**Mitre Notching Attachment** notches angles up to 2" x 2" x 1/4".

**Bar Cutting Attachment** cuts flats up to 3" x 3/8".

We Carry a complete stock of Punches and Dies

**THE JULIUS BLUM SINGLE END PUNCH** is suited for light fabricating, such as railing, stair and fire escape work. It is suitable for punching web and flanges of small beams and channels, also for angles, flat bars and plate.

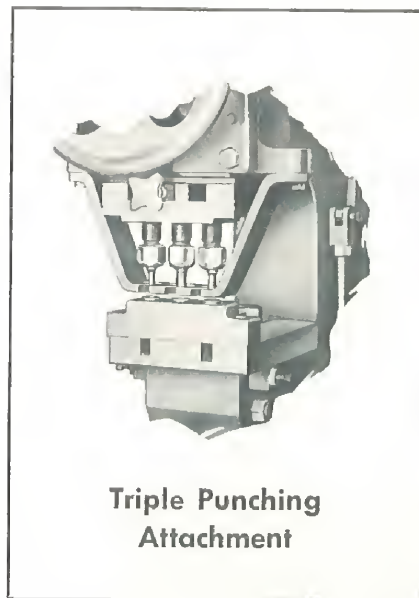
## SPECIFICATIONS

Capacity (in soft steel).....	9/16" round thru 1/2"
With single or twin punch attachment only .....	<div> <div>25/32" round thru 3/8"</div> <div>17/32" square thru 3/8"</div> <div>21/32" square thru 5/16"</div> </div>
Strokes per minute.....	60
Motor .....	2 HP .....1800 RPM

## MODEL P9

## MODEL P18

Depth of throat.....	12"	18"
Size of base.....	22" x 30"	22" x 36"
Size over all.....	45" x 27" x 60" high	51" x 27" x 60" high
Net Weight, with motor.....	1500 lbs.	1700 lbs.
Approx. shipping weight.....	1600 lbs.	1800 lbs.



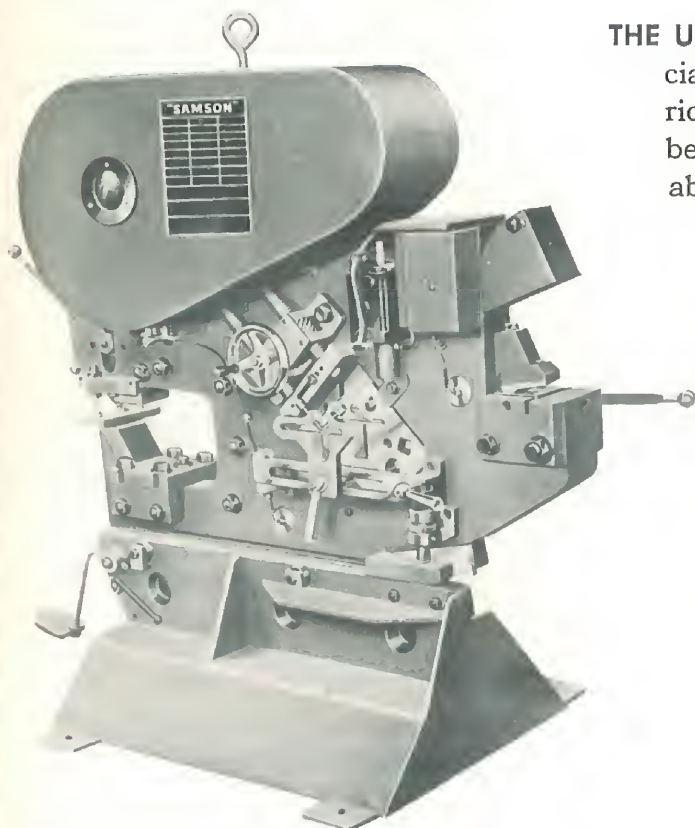
Triple Punching Attachment

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# CARDIFF No. CI UNIVERSAL FABRICATOR

FORMERLY KNOWN AS "SAMSON"



THE UNIVERSAL FABRICATOR has been designed especially to do a good all-around job in the light fabricating shop. Through quantity production it has become possible to maintain top quality at a reasonable price.

## FEATURES

**FRAME:** Unbreakable Steel Plate Construction.

**CLUTCH:** Twin Clutches permit separate operation of Punch End and Shear End. Punch is engaged either by hand lever or foot pedal.

**PUNCH:** Can be lowered by hand lever for accurate centering.

**DIE BLOCK:** Overhanging type, suitable for punching webs and flanges of beams and channels.

**COPER:** Built in on shear end, suitable for both V-notching and square coping.

**GUARDS:** A complete set of sheet metal guards for gears, flywheel, belts and coper is standard equipment.

**CENTRAL OILING SYSTEM:** Permits complete lubrication of the machine by one stroke of the pump.

**PUNCHES AND DIES:** Are of standard type, available from stock in a wide range of shapes and sizes.

## SPECIFICATIONS

Punch capacity.....	{ 7/8" round through 3/8"
Cuts Sheet or Plate.....	{ 11/16" round through 7/16"
" Flat Bars .....	up to 3/8"
" Rounds .....	up to 1/2"
" Squares .....	up to 1-3/16"
" Angles and Tees at 90° .....	up to 1"
" Angles and Tees at 45° .....	up to 3" x 3" x 1/4"
Copes and notches.....	up to 2" x 2" x 1/4"
Depth of throat.....	1/4"
Length of knives.....	12"
Strokes per minute.....	8"
Motor .....	35
Net Weight (less motor).....	2 HP 1800 RPM
Shipping Weight (approx.).....	1900 lbs.
	2250 lbs.

Bulletin showing complete details furnished on request

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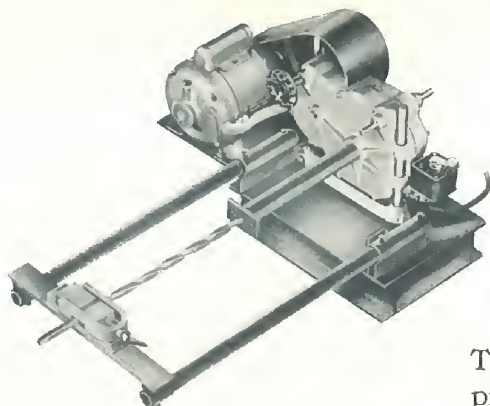


# JULIUS BLUM BAR TWISTING MACHINE

Model N-58

Designed and built especially for Julius Blum & Co., Inc.

*Twists bars up to 5/8" square quickly and easily.*



Model N-58

## SPECIFICATIONS:

Motor: 1/2 HP, for 110 V 60 cy 1 ph A.C.

Switch: Drum Type—Reversing

Bushings furnished for 1/2" sq. and 5/8" sq. bars.

Size of base: 12" x 18"

Size over all: 37" x 28" x 18" high

Weight: 170 lbs.

Twists made with this machine are of uniform length and pitch. Bars remain straight, do not require straightening after twist is completed.

# TAL PORTABLE HYDRAULIC PIPE BENDER

FAST • ACCURATE • POWERFUL



Model 225 PH

The Tal Bender handles quickly and easily any size pipe within its range, without filling or heating. The unit can be carried by one man and is ready to operate anywhere without being bolted down. After a bend is completed, the pipe former is disengaged from the pipe by positive action.

## MOTOR DRIVE FOR TAL BENDER

Designed and built especially for Julius Blum & Co., Inc.

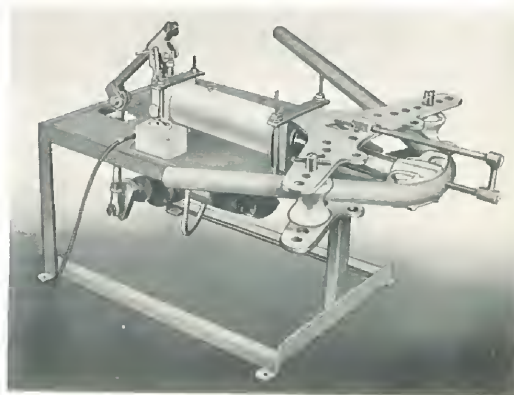
Either Model 225 PH or 325 PH can be mounted on the motor drive unit quickly and easily, or detached at any time for manual operation in the field.

Model No.	Standard Range	Range with extra equipment	Shipping weight
225 PH	1 1/4" to 2"	3/8" to 2"	137 lbs.
325 PH	1 1/4" to 3"	3/8" to 3"	220 lbs.

These models carried in stock for immediate shipment. Other Tal Benders available for pipe sizes up to 8".

**Regular Equipment includes:** 90° Pipe formers for standard range, duplicate bend indicator, push-out pin, carrying case.

**Optional Equipment:** 90° Formers for extra range, 180° bending attachment and radius formers, straightening and bar bending tools, long radius pipe formers.



The unit operates at 216 strokes per minute, powered by a 3/4 HP gear motor for 110/220 V—1ph—60 cy A.C.

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# The ARC-FIT TUBE AND PIPE NOTCHER 121

Tube and Pipe joints without fittings are fabricated neatly and economically with the Arc-Fit. The process requires seconds instead of minutes. The pipe is not deformed in any way, and no further finishing is required before welding. The Arc-Fit has proved indispensable in the fabrication of pipe railings.

## OPERATION

The Arc-Fit notches one side of the tube to match the radius of the piece to which it will be joined. The tube is then turned over and the operation repeated on the opposite side. The result is a perfect Tee joint suitable for welding or brazing.

## THE ARC-FIT UNIT

The Arc-Fit Unit consists of a housing and a set of dies. One standard housing will accommodate right angle dies for any size tube up to  $2\frac{3}{8}$ " O.D. or pipe up to 2" I.P.S. Special housings are furnished for larger tubes and for special angle dies.

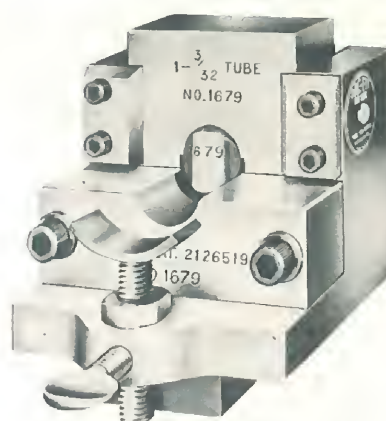
Standard Right Angle Units are operated by means of the Arc-Fit Special Hand Press, or by any suitable power punch press, press brake or hydraulic press. Angular Notch Units or other Arc-Fit tools requiring special housings must be operated by a power press.

## SPECIAL UNITS:

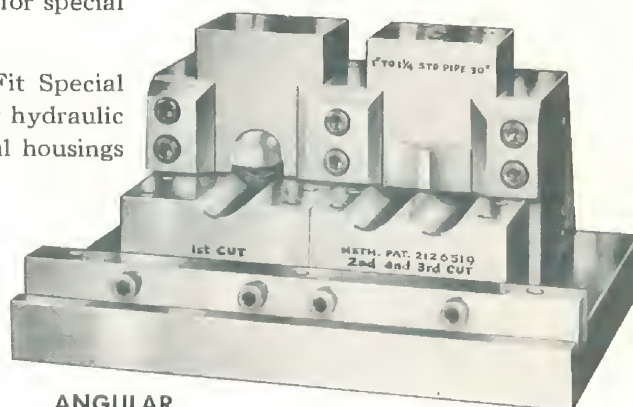
Twin notch unit for right angle joints notches both sides of a tube or pipe simultaneously, cutting production time in half.

V-notching Dies for mitre notching of angles can be supplied in various sizes.

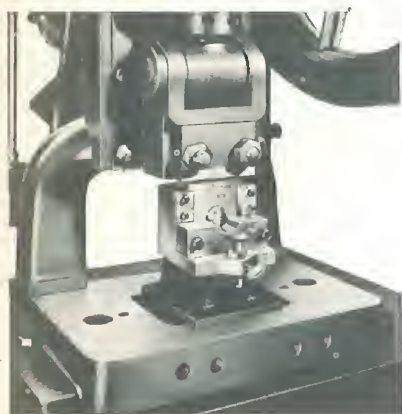
Dies for notching slots or openings of various shapes and sizes in tubing or flat material supplied to customer's specifications.



RIGHT ANGLE NOTCH UNIT



ANGULAR NOTCH UNIT



ARC-FIT IN POWER PUNCH PRESS

## STOCK SIZES

The following equipment carried in stock for immediate shipment:

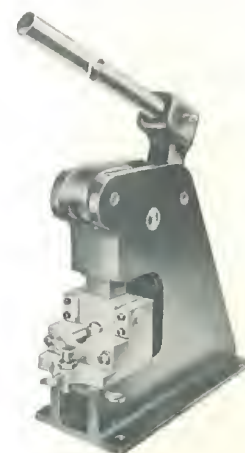
ARC-FIT RIGHT ANGLE UNITS FOR  $\frac{3}{4}$ ", 1",  $1\frac{1}{4}$ ",  $1\frac{1}{2}$ ", 2" and  $2\frac{1}{2}$ " standard pipe and for 1" O.D. Tubing, No. 16 to No. 18 gauge.

ARC-FIT HAND PRESSES AND PUNCH PRESS ADAPTERS

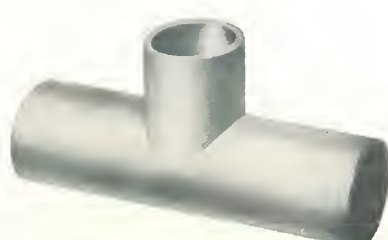
V-NOTCHING UNITS

BEVEL JOINT UNITS for  $1\frac{1}{4}$ " and  $1\frac{1}{2}$ " pipe stair railings (35° bevel).

All other Arc-Fit equipment promptly made to order.



ARC-FIT IN HAND PRESS



RIGHT ANGLE NOTCH FOR TEE JOINT



NOTCH FOR ANGLE JOINT



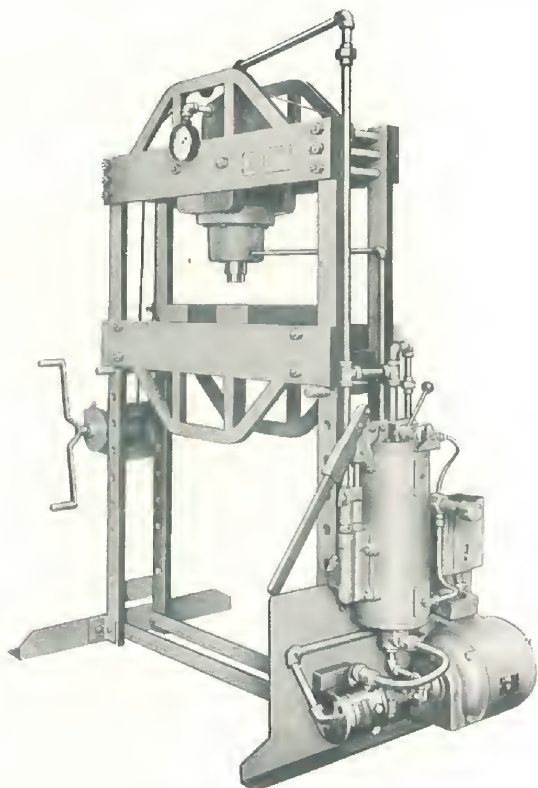
# JULIUS BLUM MOTOR DRIVEN HYDRAULIC PRESS

## FOR BENDING — FORMING — STRAIGHTENING

For fabricating Anchor Bolts — Brackets — Beam Hangers — Pipe Clamps.

For Bending or Straightening Bars — Channels — Beams — Pipe.

*Designed especially for the requirements of structural and miscellaneous iron shops.*



### 75 TON POWER RETURN LONG STROKE PRESS

This unit is especially adapted for structural and miscellaneous iron shops. It incorporates many features not encountered in punch presses, press brakes or ordinary hydraulic presses. It is more versatile and does more jobs faster and at less cost than other types of equipment.

#### SPECIFICATIONS

##### Model W-75—Power Return Hydraulic Press

Tonnage Capacity .....	75	Space between bed plates .....	9 1/4"
Ram Diameter .....	2 15/16	Height overall .....	84"
Cylinder Bore .....	6"	Width overall .....	75"
Piston Diameter .....	6"	Width between uprights R to L .....	42"
Ram Travel .....	11"	Motor 7 1/2 H.P.—1800 RPM.	
Bed Travel .....	35"	Speed of Ram..1" per 2.6 sec.	
Bed Supporting Pins, dia. (Alloy Steel).....	1 1/4"		
Opening between uprights at sides .....	6 3/8"		

Hand Pump not furnished on motor driven presses with power return of ram.

## FEATURES

### ADJUSTABLE RAM PRESSURE

By-pass valve can be set for any desired pressure up to capacity of machine. Actual tonnage delivered is shown on pressure gauge. Operation may be started at minimum pressure and tonnage built up gradually until it is sufficient for the work being done. Once it is set, the same pressure is applied on every stroke. At the bottom of the stroke the pressure will remain the same until the direction of the ram is reversed by the operator. This permits the use of light, inexpensive dies for lighter work. Many dies can be improvised and built up from scrap pieces of steel.

### QUICK ACTION

Ram travel is 1" in 2.6 seconds. The stroke of the ram can be stopped and reversed instantly at any point of its traverse, either up or down. This eliminates waste motion as the ram needs to be raised only enough to clear the work. If work is small, a number of pieces can be inserted and formed simultaneously.

Higher speeds of ram travel can be furnished on special order.

### INCHING MOTION OF RAM

Sensitive fingertip control of ram permits an inching motion which is useful for straightening and certain bending operations. The motion of the ram may be stopped at any point and downward motion resumed instantly when desired.

### LONG STROKE

The stroke of the ram is 11" and pressure is uniform and constant throughout its travel. Therefore there is no need for exact adjustment of the distance between upper and lower die. Regardless of thickness of metal being formed, the dies will seat properly. While the bed can be raised and lowered by means of a winch, it is often unnecessary to change the setting for different operations.

### OPEN FRAME

Does not interfere with long work pieces or reverse bends.

### EASE OF MOUNTING DIES

Standard Ram Caps can be supplied for attaching upper Dies to Ram. The Die is welded to the ram cap, which slides over the end of ram and is fastened by a set screw fitting into a suitable groove.

The lower die merely rests on the die bed. It may be left loose so as to center itself under the upper die; or it may be clamped in place.

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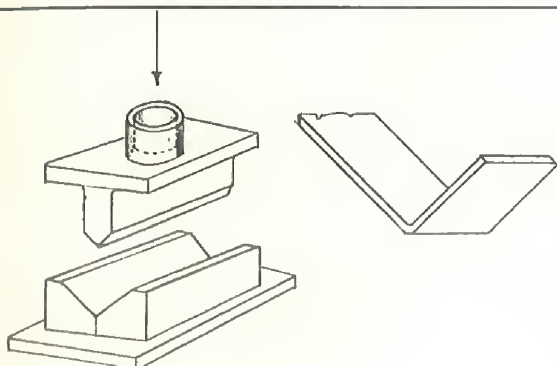
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# JULIUS BLUM

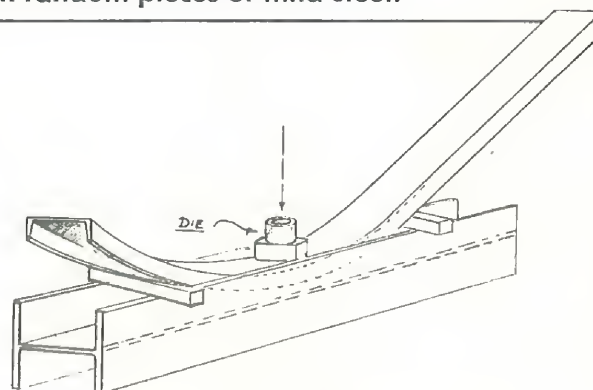
## MOTOR DRIVEN HYDRAULIC PRESS

TYPICAL DIE SETUPS FOR A FEW OF THE JOBS WHICH CAN  
BE DONE ON THE BLUM HYDRAULIC PRESS

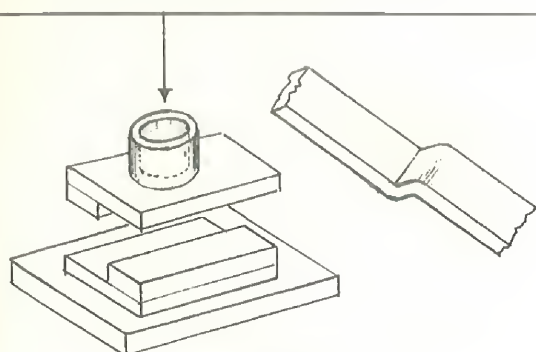
These dies can be built in any shop from random pieces of mild steel.



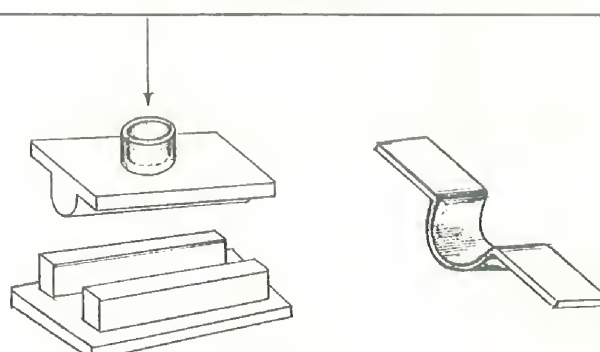
Angle Bends on Bars or Plate



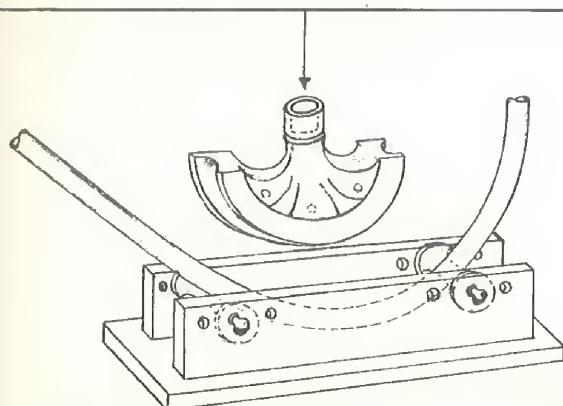
Bending and Straightening Beams  
and Channels



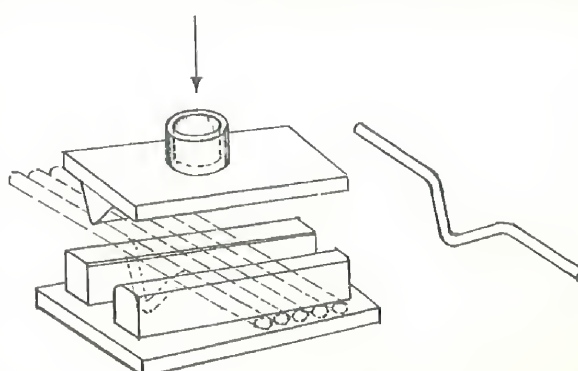
Offset Bends



Forming Pipe Clamps



Bending Pipe (using stock pipe formers as  
supplied for hand power pipe benders)



Forming Anchors

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# PLASTIC TUBING • SHEET • ROD SHAPES • PIPE • FITTINGS

## TENITE II SOLID ROD

Seven stock sizes  
1/4" dia. to 3/4" dia.

## POLYSTYRENE TUBING

Nine stock sizes  
1/4" O.D. to 2" O.D.

## POLYSTYRENE ROD

Eighteen stock sizes  
1/8" dia. to 2" dia.

## POLYSTYRENE SHEET

Twelve stock thicknesses  
.031" to 1.00"

## TULOX TT TUBING

Forty-one stock sizes  
1/8" O.D. to 2" O.D.

## METHACRYLATE ROD

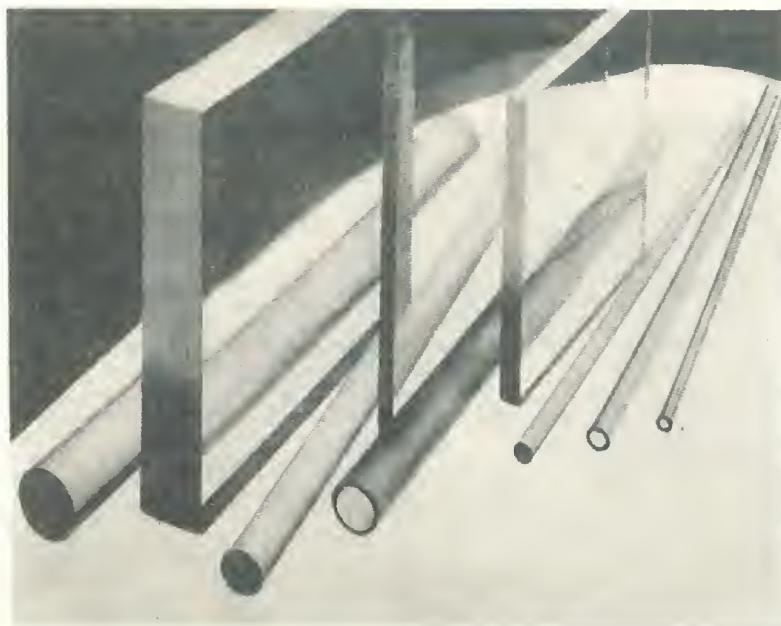
Eight stock sizes  
1/4" to 1 3/4" dia.

## TYGON TUBING

Forty-five stock sizes  
1/8" I.D. to 2" I.D.

## TYGON SHEETING

**EXTRUDED SHAPES**  
**TULOX PLASTIC CONTAINERS**



Catalog showing complete range of sizes and price schedules furnished on request.

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